FIG. 1A

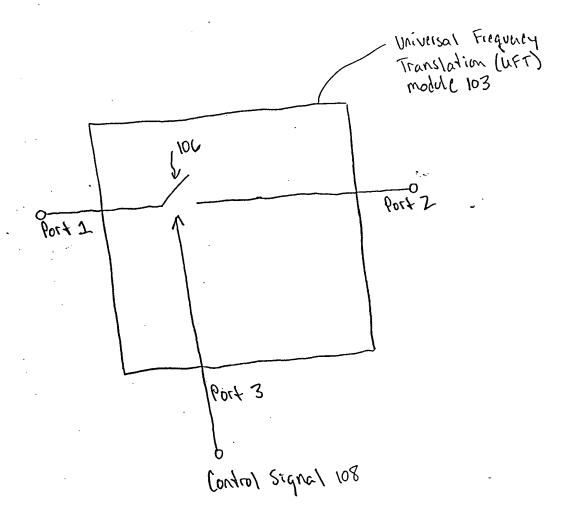


FIG. 18

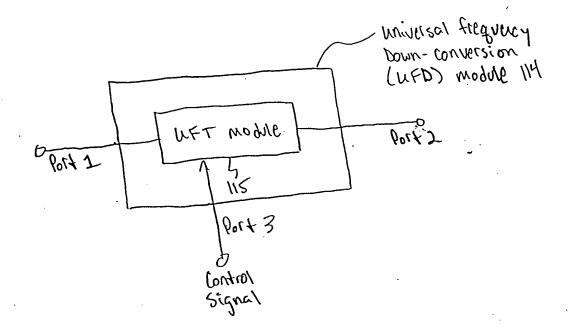


FIG. 1C

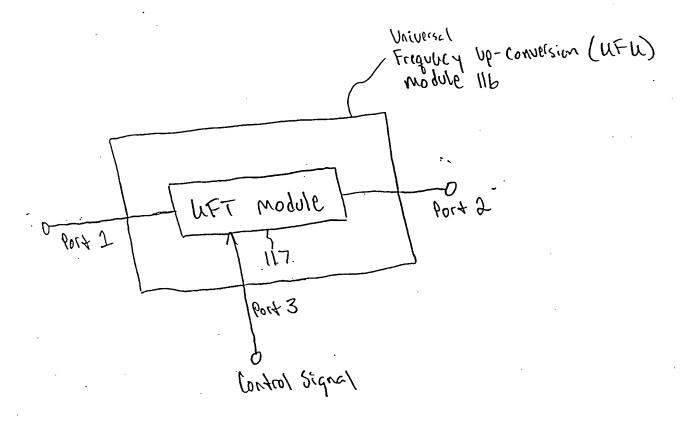


FIG. 10

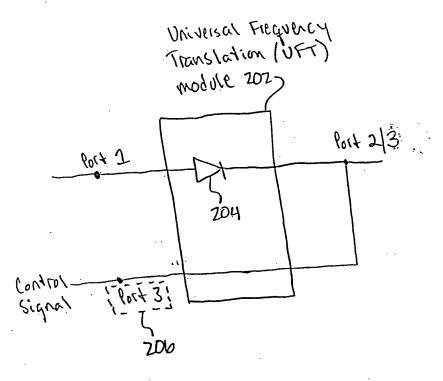
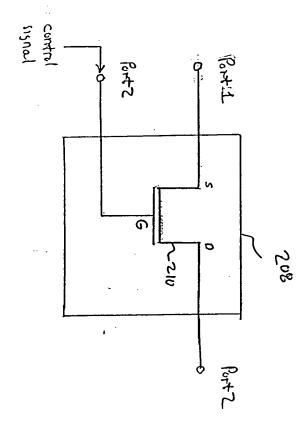


FIG. 2A



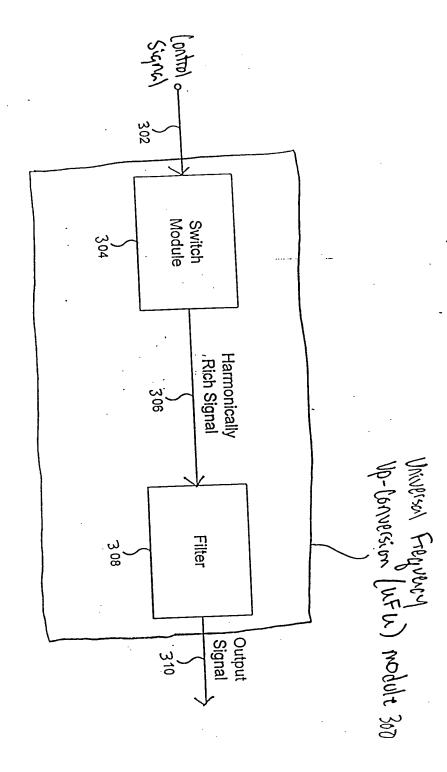


FIG. 3

Control of the state of the sta

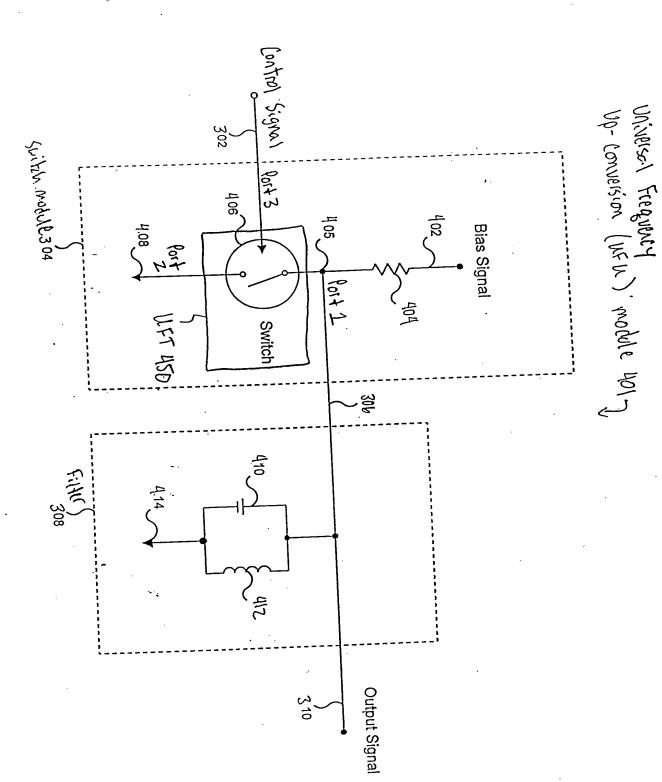
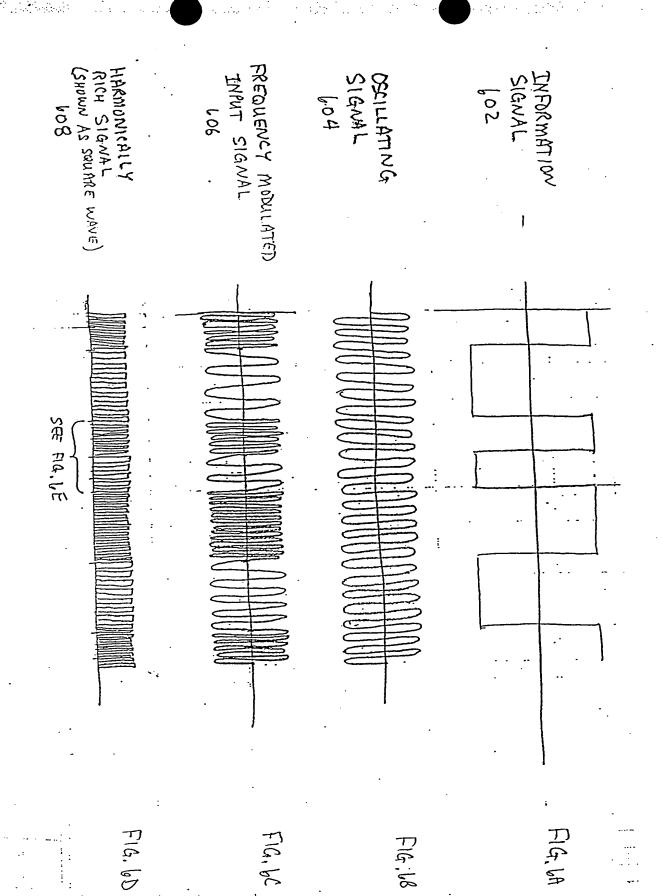


FIG. 4

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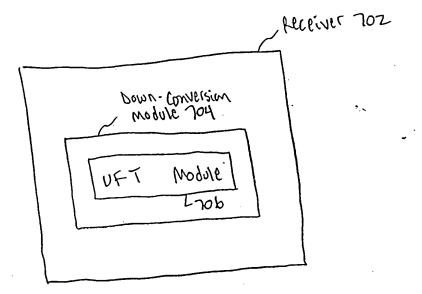
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FON DAMENTA L see fig. bf FUNDA MENTAL FREGUENCY 612A OM SEE FIG. 6 马 THIRD HARMONIC THIRD HARMONIC 8019 6123 FIFTH HARMONIC FIFTH HARMONIC 6.125 2019 FIG WE FIG 66

HARMONICS OF SIGNALS (SHOWN BUT COMULTANEOUS LY BUT SUMMED) SIGNAL OUTPUT SIGNAL 919 3019

614

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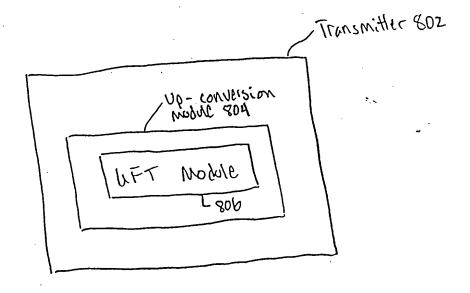


FIG. 8

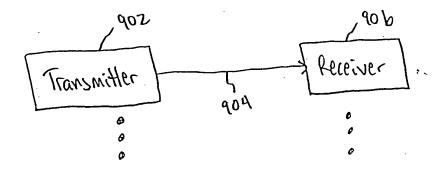


FIG. 9

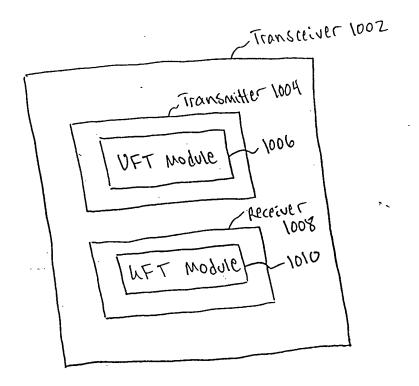


FIG. 10

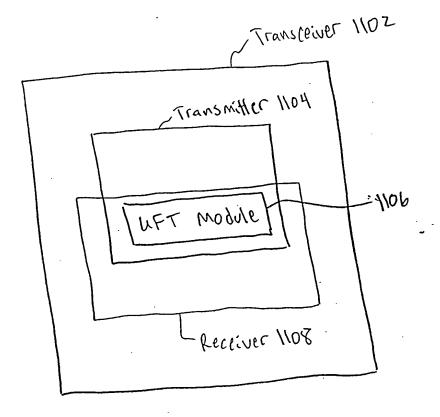


FIG. 11

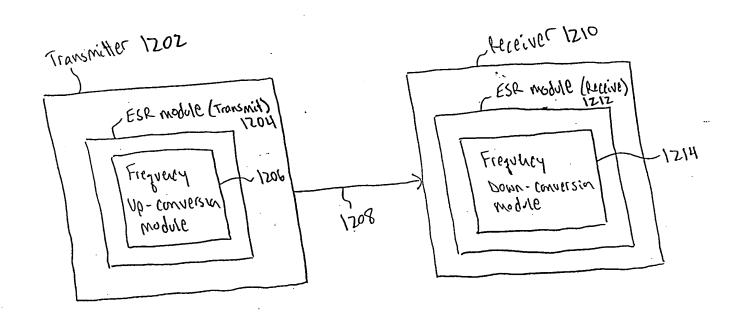


FIG. 12

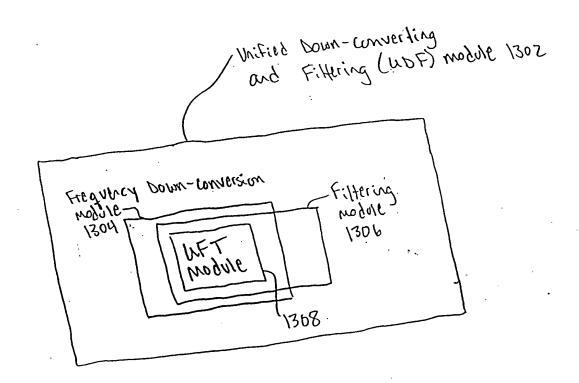


FIG. 13

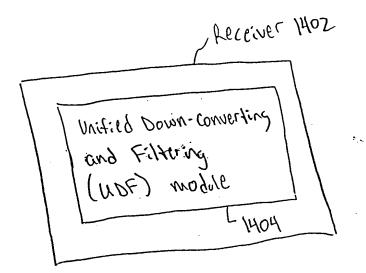
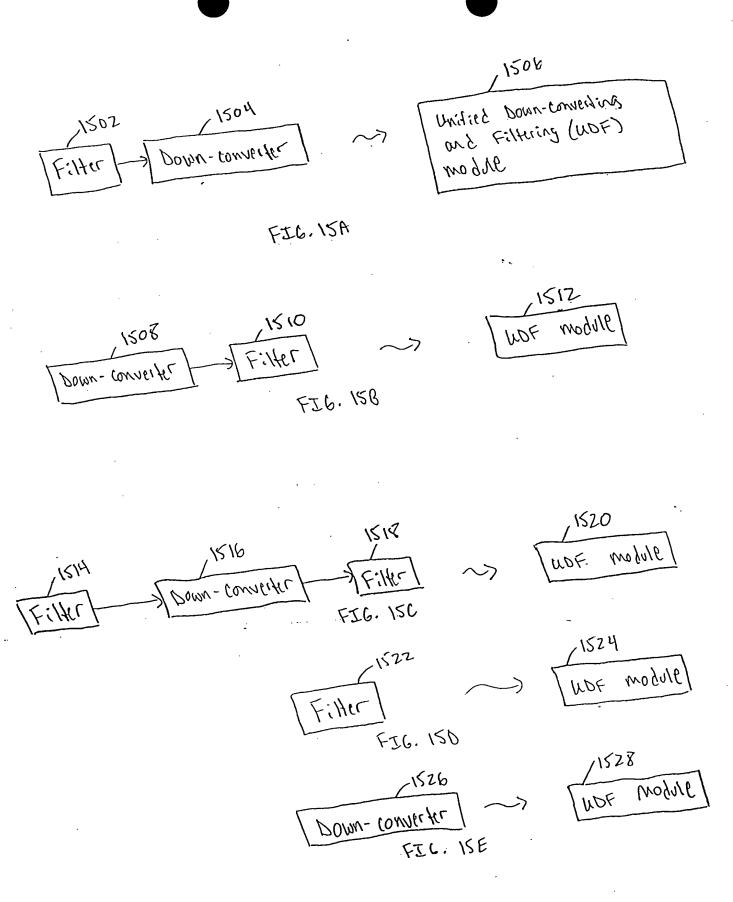


FIG. 14



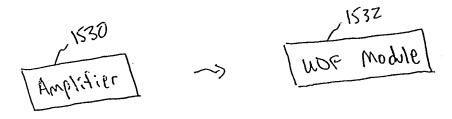


FIG. ISF

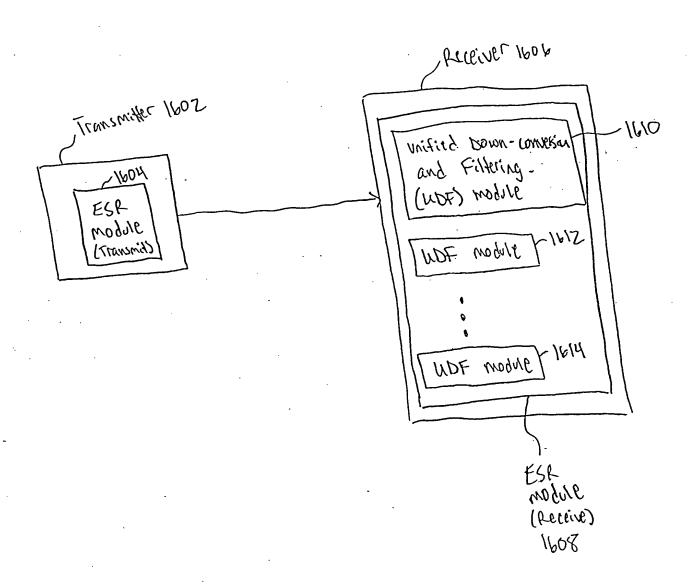


FIG. 16

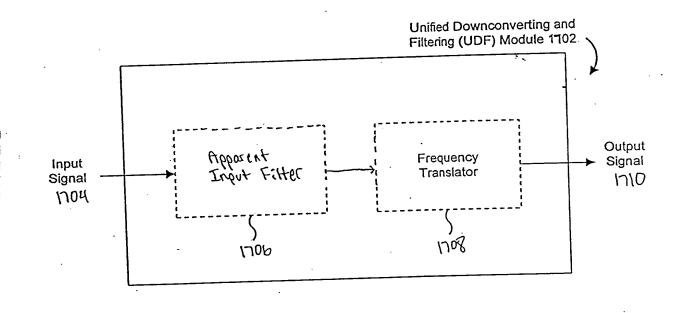


FIG. 17

Time	t-1 (rising edge of ϕ_1)		t-1 (rising edge of ∳₂)		t (rising edge of ∳₁)		t (ri sing edge of φ₂)		t+1 (rising edge of ϕ_1)	
Node		Ψ ₁) 1804	VI _{t-1}	1808	VI,	<u> 1816</u>	V۱ _t	<u> 1826</u>	VI _{t+1}	1838
1902	VI _{t-1}	1004	VI _{t-1}	1810	VI _{t-1}	<u> 1818</u>	۷I _t	<u>1828</u>	∖VI _t	<u>1840</u>
1904	140	1806	VO _{t-1}	1812	VO,	1820	VO _t	<u>1930</u>	VO ₍₊₁	184z
1906	VO _{t-1}	1000	VO _{t-1}	1814	VO _{t-1}	1822	VO,	1832	VO _t	<u>1844</u>
1408		1807	-		VO _{t-1}		VO _{t-1}	<u> 1834</u>	VO,	<u>1846</u>
1910				<u>1815</u>	-		VO _{t-1}	1836	VO _{t-1}	<u> 1848</u>
1912	 -		 		-				VI _t -	<u>1850</u>
1918	-		-	-					0.1 * VO _t - 0.8 * VO _{t-1}	

FIG. 18

v v

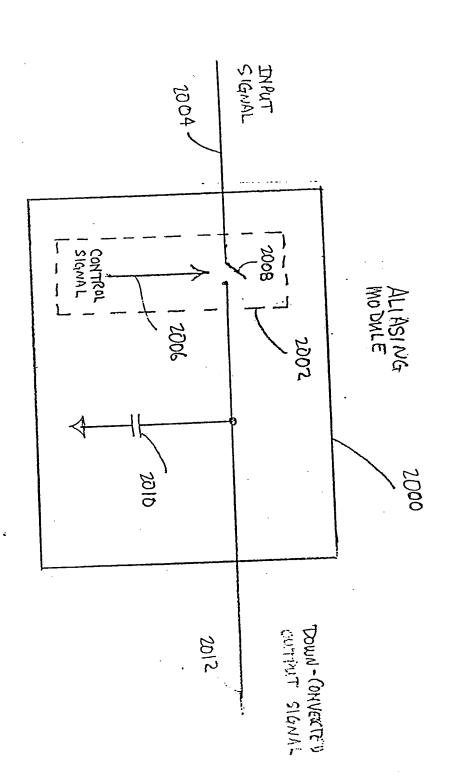
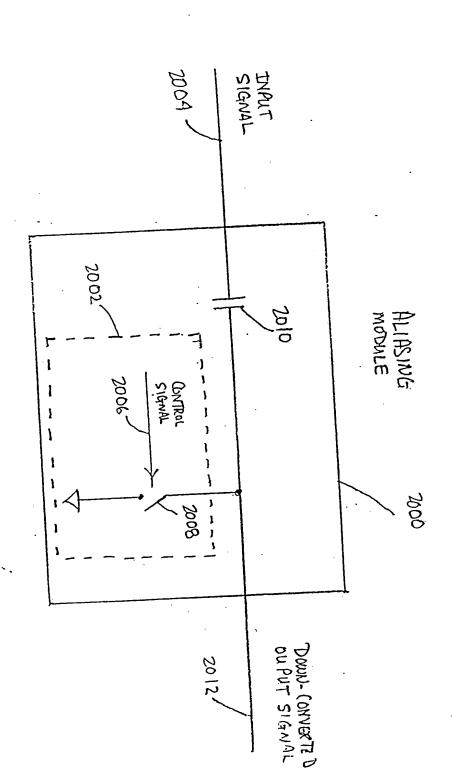


FIG. JOA

FIG. 20A-1



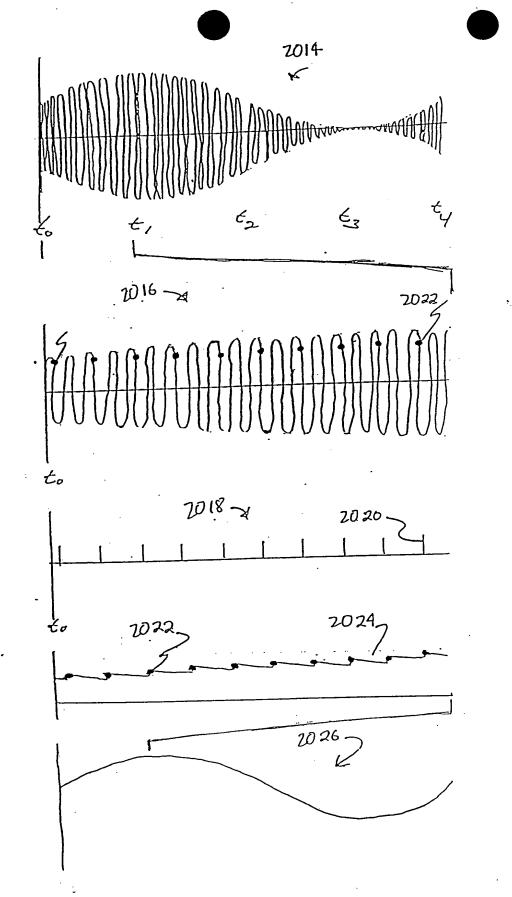


FIG. 20B

FIG. 20C

FIG. 200

FIG. 20E

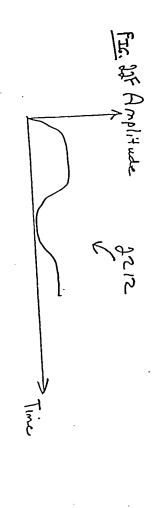
FIG. 20F

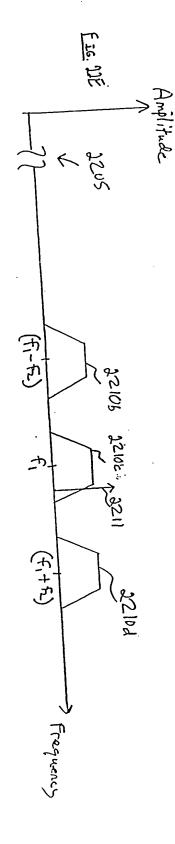
huseband signal dloz Transmitter کالفط transmitted redundant spectrums 1106an 111 Communications Medium 3016 spectrums 21106-1 Receiver 217 demodulated busebanů SISNALDIIY

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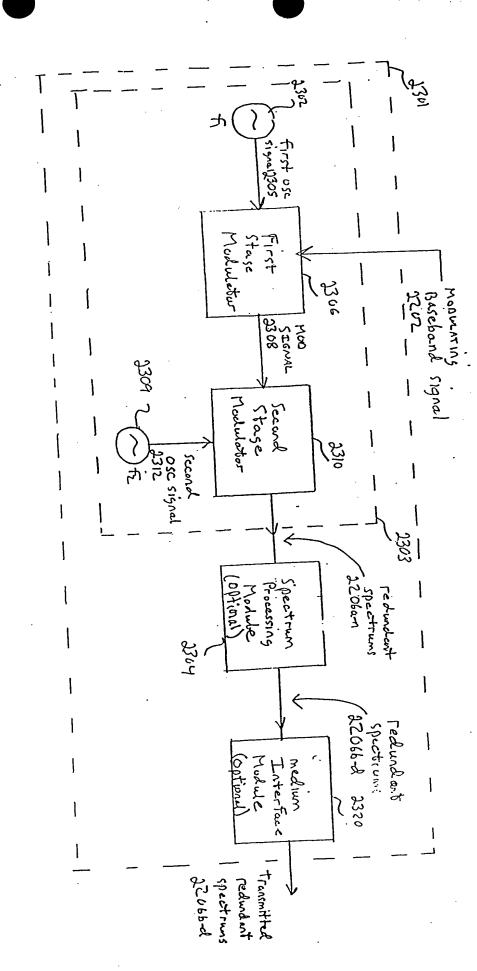
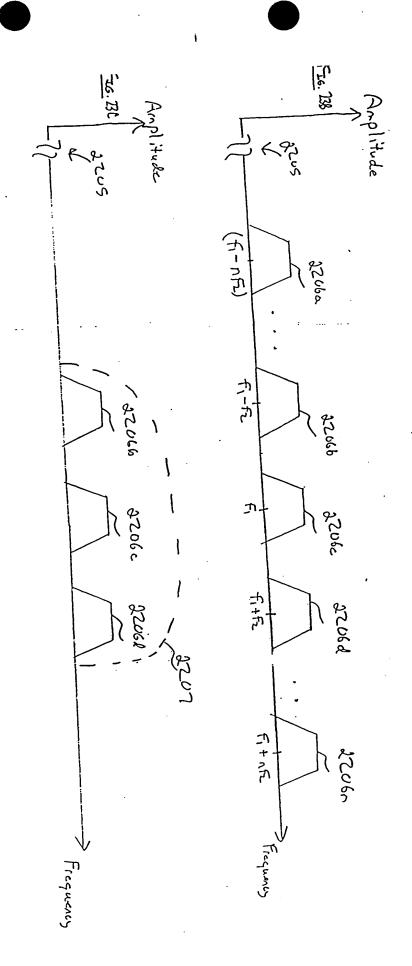


FIG. 23A

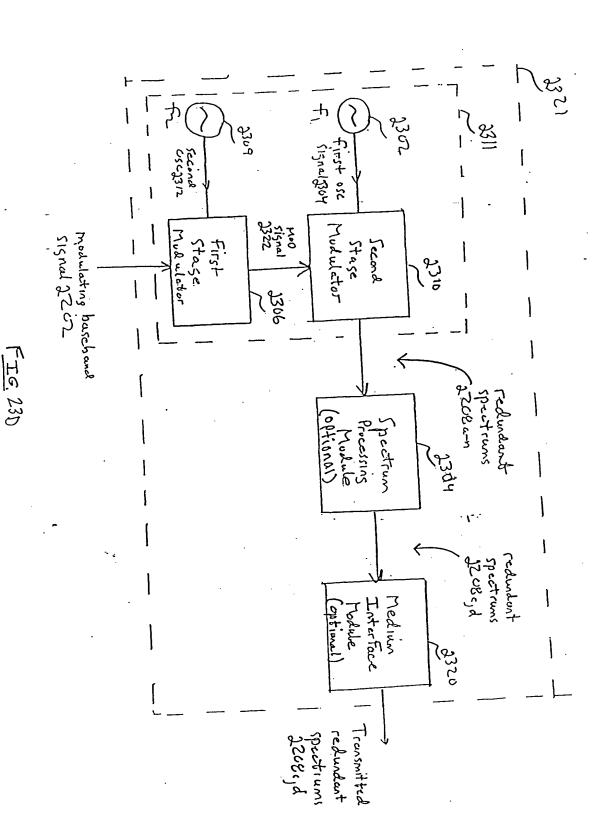
42-359 2XJ HELT ULLU ****
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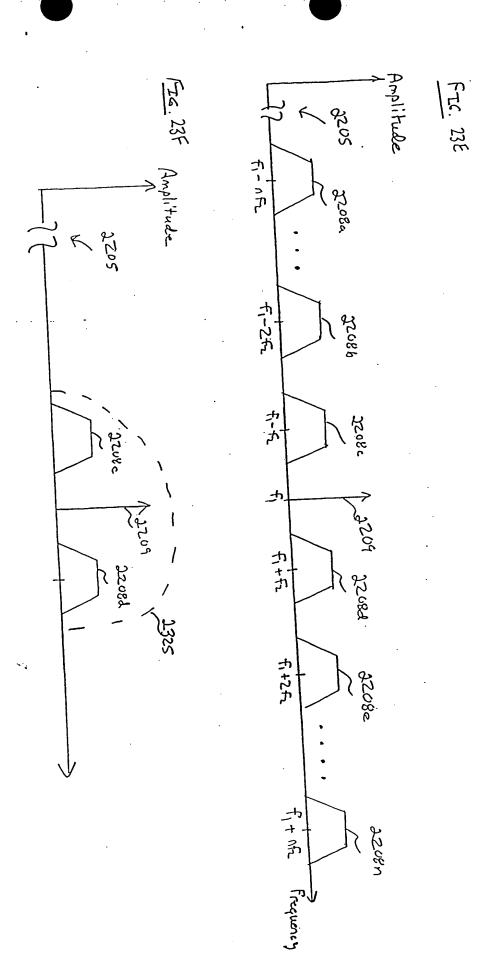
42-31W ALLIECTORES

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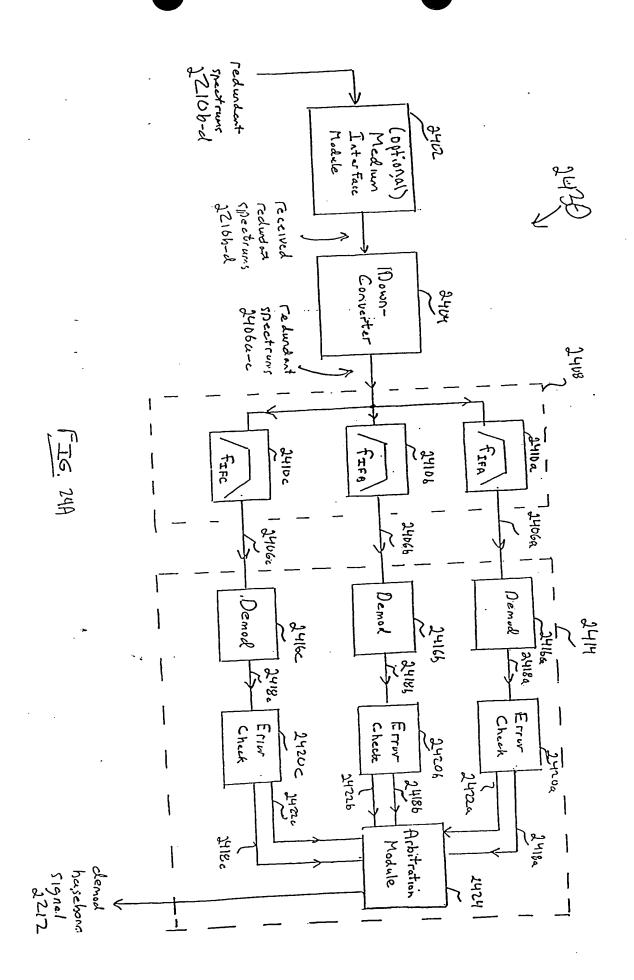
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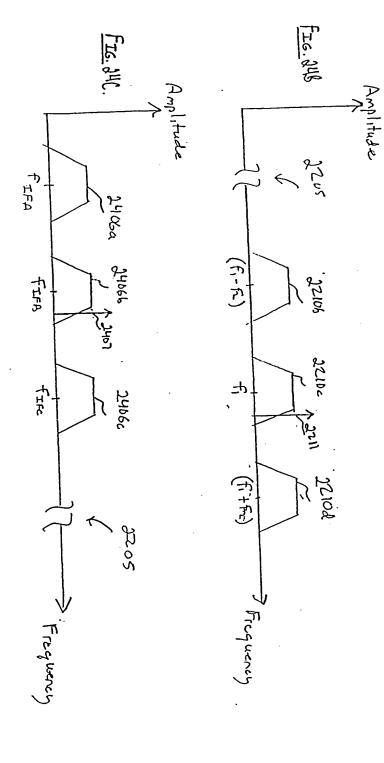


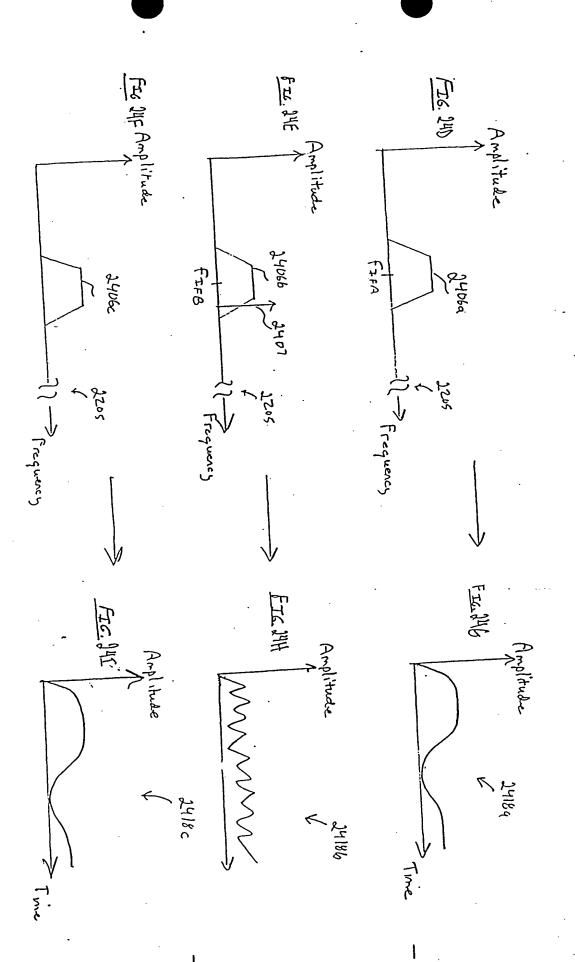
42.5W awithuran



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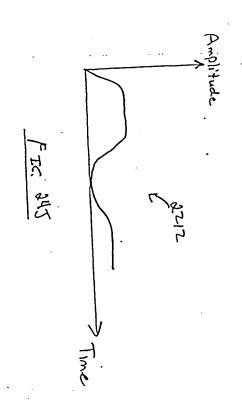
.

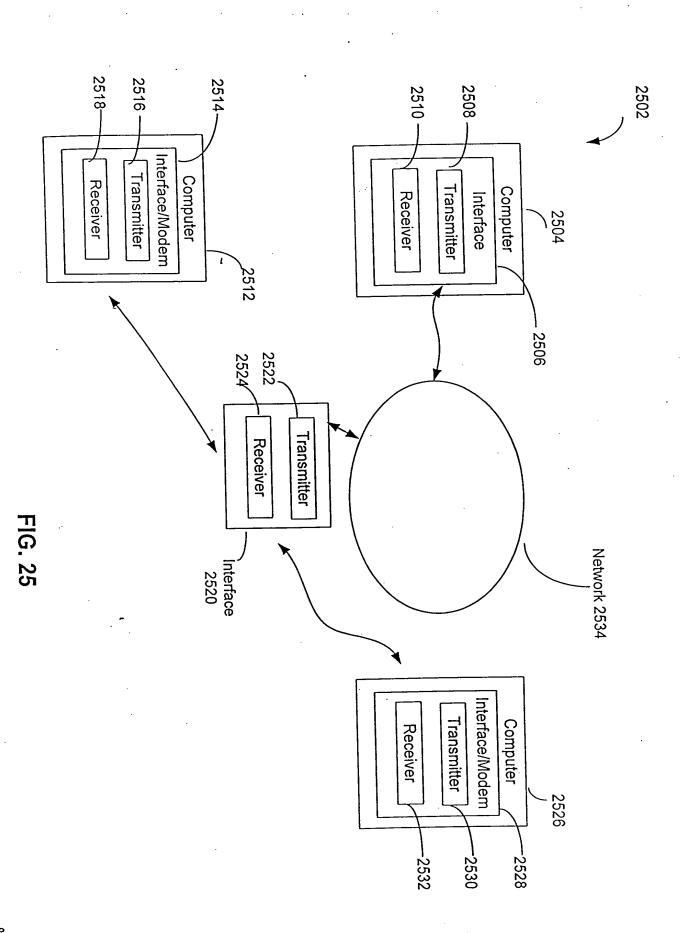




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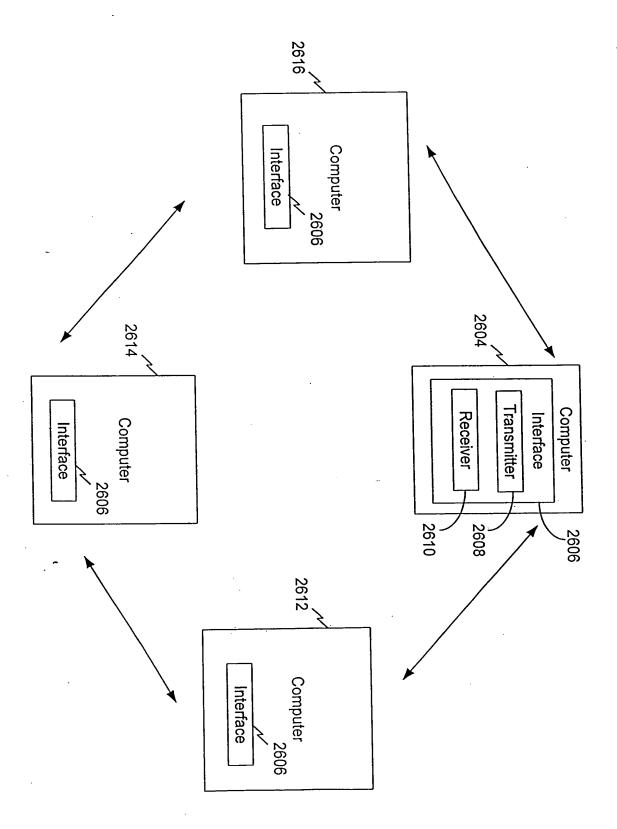


FIG. 26

FIG. 27

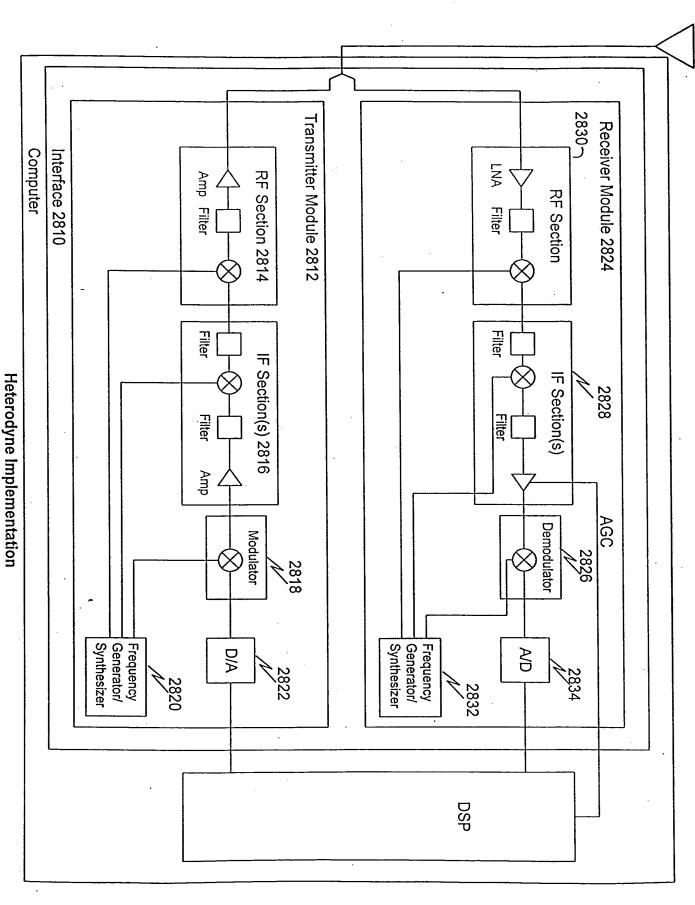
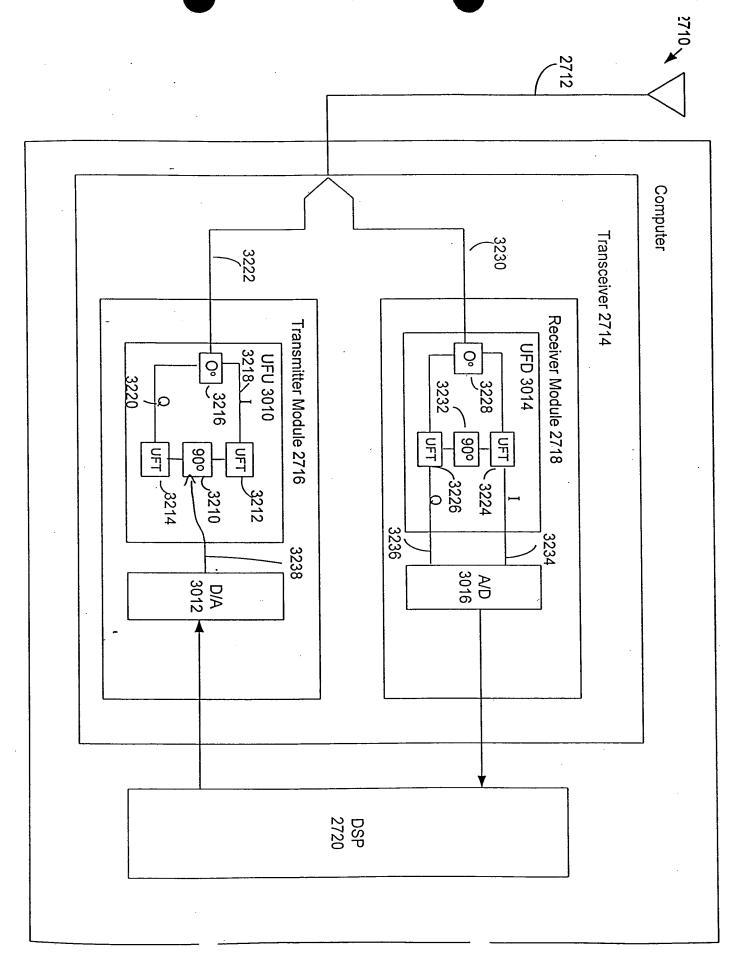
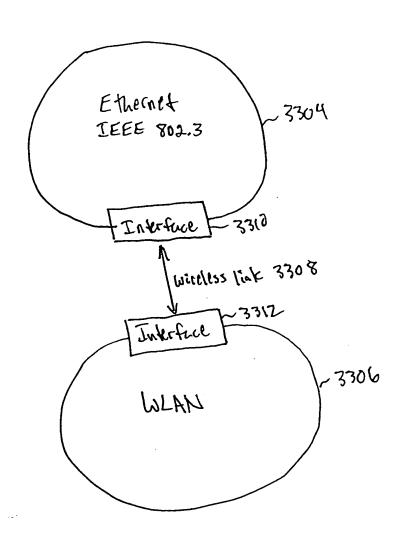


FIG. 28

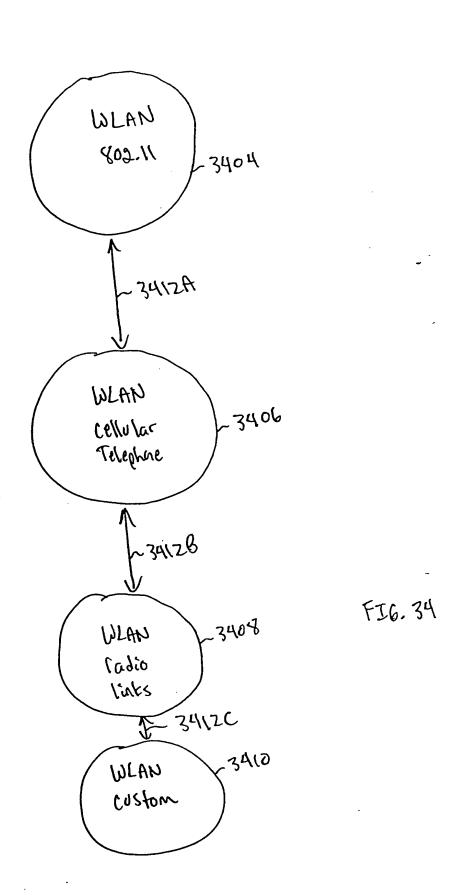
FIG. 29

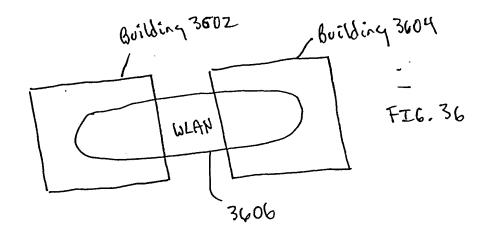
THE EIG. 31

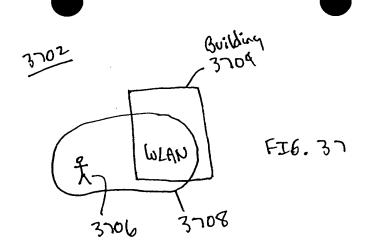


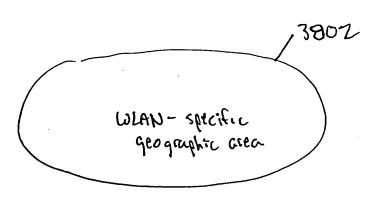


FI6.33

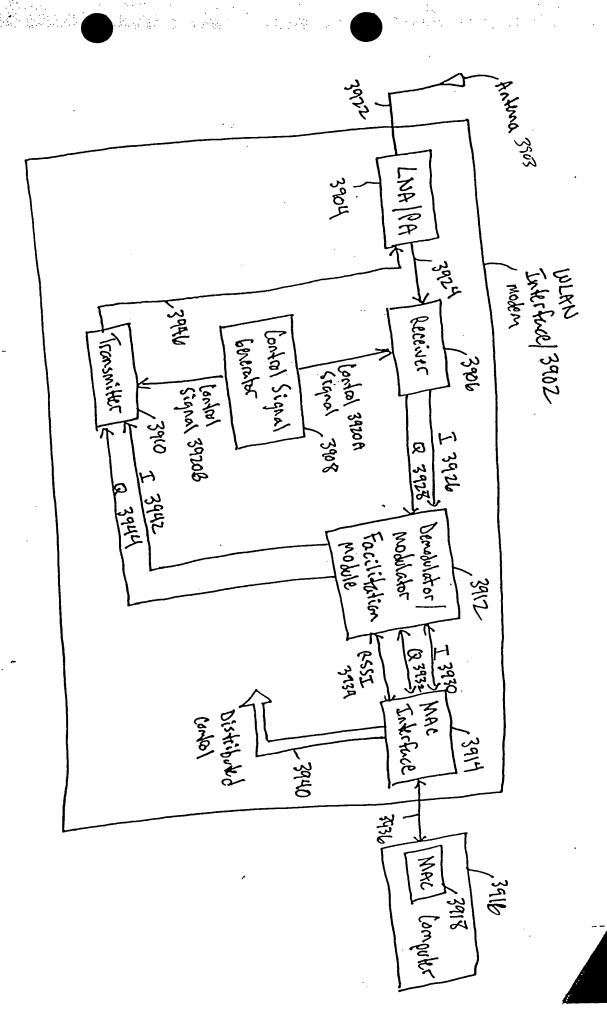








FI6.38



FI 6.39

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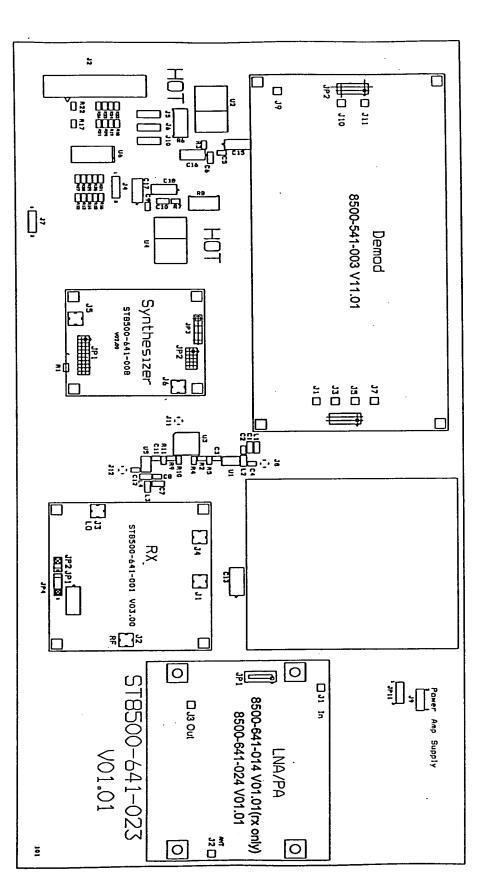
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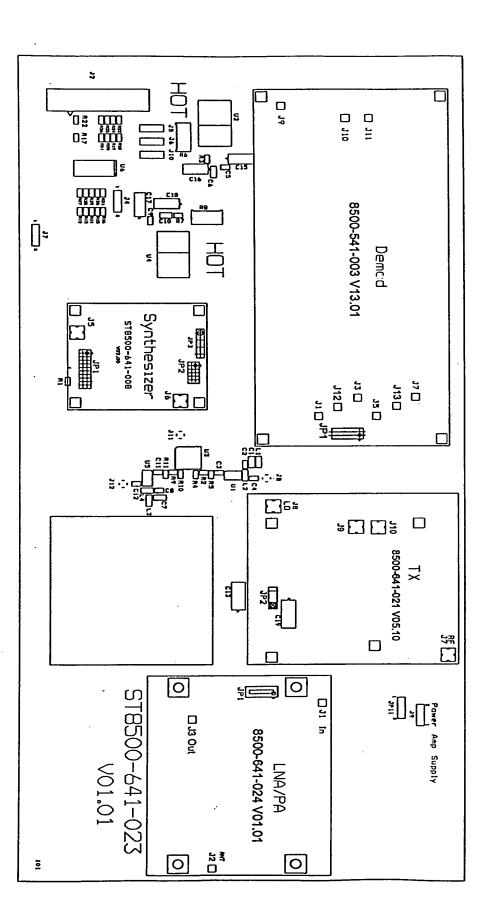
FIB. 42

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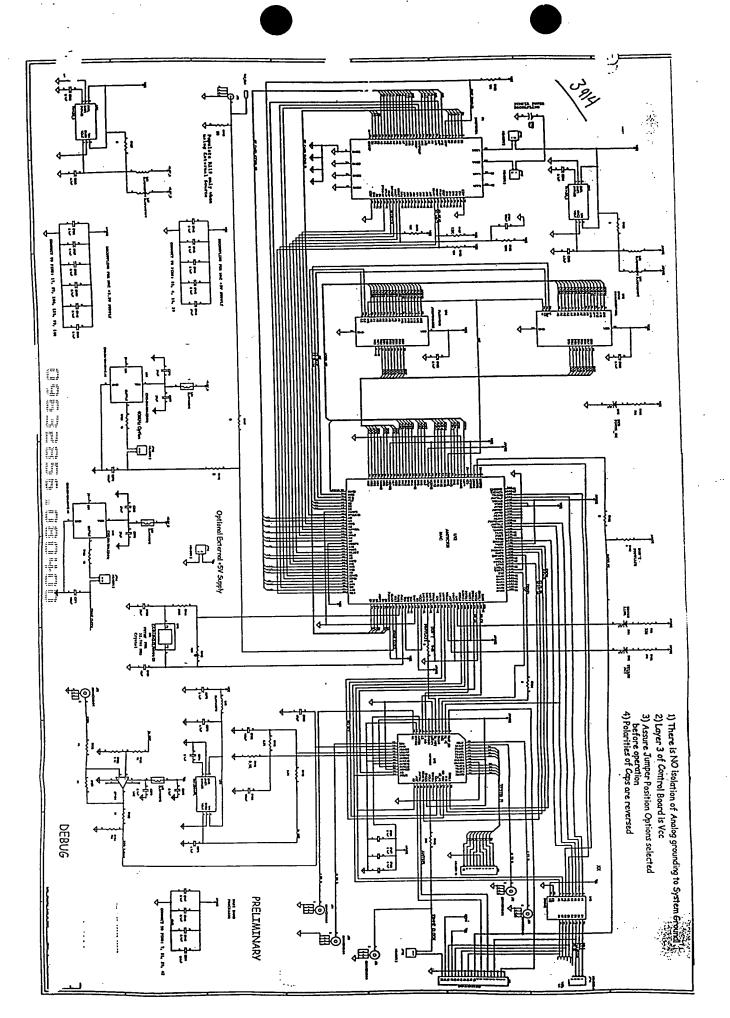
Receive Only

FI 6. 43



Transmit Only

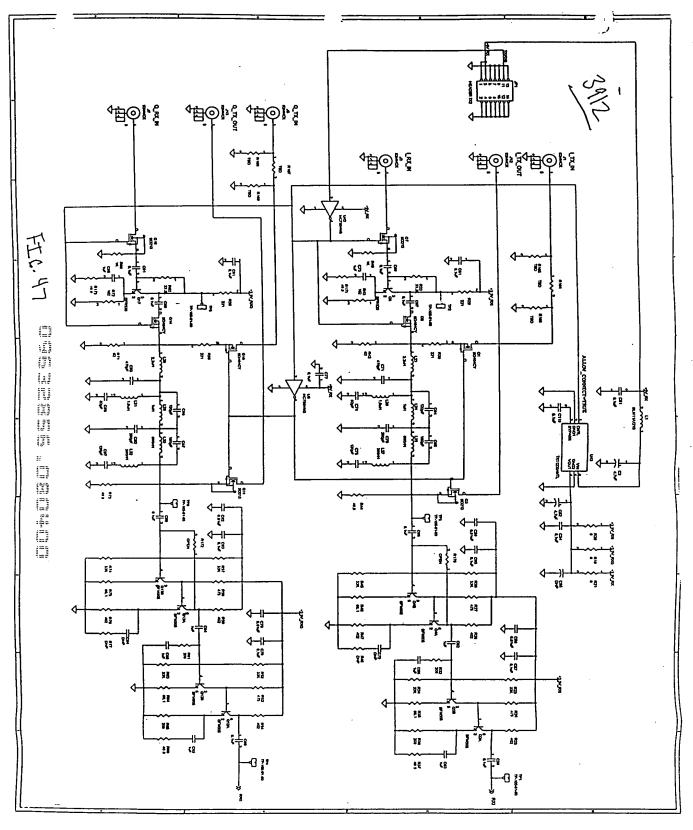
FIG. 4

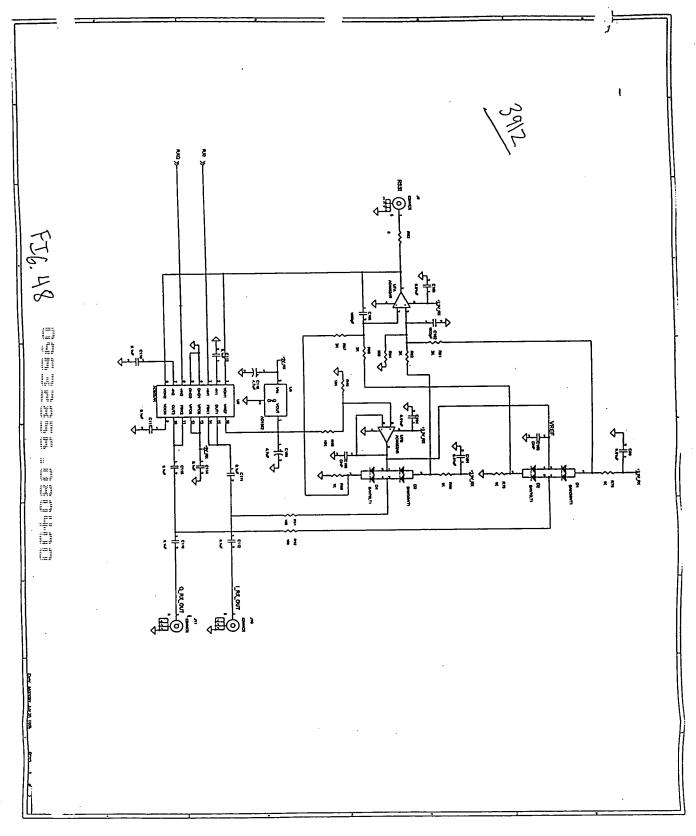


• .			为 表示部件的 "解释的证明,不是 。"		•,••
		TIT	- ·		
29 30	20 22 23 25 26 27	47 6 78 6	1110 876 5	α ω. 4	PARK Item
22 -1 -1		7111 71	0	ω 25 ω	VISION PO Quantity 1
R100	R112 R114 R105 R106, R107, R108, R111 R116 R116 R115 R113	JP17 JP11 J16, J20, J21, J22, J23, J24, J25 J19 J19 P1 L59, L60, L61, L63, L64, L65,	C124, C132, C133, C271, C278 C129 C270, C277 C130 C131 DS1 DS2 DS3 JP12, JP13, JP14, JP15, JP16,	C263, C273, C275, C282 C120, C125, C126, C127, C128, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C147, C148, C149, C264, C272, C274, C279, C280, C281, C283 C146, C269, C276	
750, Resistor, 0603, 5% 560, Resistor, 0603, 5% 1330) Resistor, 0603, 17% []	10M, Resistor, 0603, 5% 390K, Resistor, 0603, 5% 100K, Resistor, 0603, 5% 15K, Resistor, 0603, 5% 9.1K, Resistor, 0603, 5% 8.2K, Resistor, 0603, 5% 3.9K, Resistor, 0603, 5%	Connector HEADER 4Pin Connector 82MMCX Connector Header10 Connector with Ejector Connector 34X2PCMCIA Ferrite Bead	C132, C133, C271, 100pF CAP 0603,X7R,10% C277 47pF CAP 0603,X7R,10% 27pF CAP 0603,X7R,10% 22pF CAP 0603,X7R,10% 10pF CAP 0603,X7R,10% LED, Green LED Yellow LED Red LED Red LED Red	4.7uF CAP 6032,Tantalum,20% 0.1uF CAP 0603,X7R,10%	Part Description 10uF CAP 6032, Tantalum,20%
ERJ-3GSYJ751V ERJ-3GSYJ561V ⊫ERJ-3GSYJ331V	ERJ-3GSYJ394V* ERJ-3GSYJ104V ERJ-3GSYJ153V ERJ-3GSYJ912V ERJ-3GSYJ822V ERJ-3GSYJ392V	100/VH/TM1SQ/W.100/4 82MMCX-50-0-1 TMS-110-01-G-S EHT-1-10-01-S-D DICMJ-68S-SPC-M08 BLM11A121S	GRM39COG101K050AD GRM39COG470J100AD GRM39COG270K050AD GRM39COG220K050AD GRM39COG100D050AD 597-3311420 597-3401420 597-3111420 2MS-19-33-01	CAP (49TA475M006A5) Fantalum,20% CAP 0603,X7R,10% GRM39X7R104K050AD CAP 0603,X7R,10% GRM39X7R103K050AD	Part Number TAJT106K010R
Panasonic Panasonic Panasonic	Panasonic Panasonic Panasonic Panasonic Panasonic Panasonic	BLKCON Huber/Shuner samtec samtec ITT Canon Murata	Murata Murata Murata Murata Murata Murata Dialight Dialight Dialight Specially Electronics	Murata	Manufacturer Kernet

Panasonic	Panasonic	ERJ.KOA	Panasonic	Panasonic	Samsung		AMD	Harris	AMD	3KHz C/I Statek	National	TOKO		TOKO	z A/I Statek
ERJ-3GSYJ500V	ERJ 3GSYJ100V	RM732Z1J000ZT	3GSYJ000V	œ	KM62256DLTG-5L	M5M5256CVP-55LI	AM79C930	HFA3842 A1	AM29F010-55EC	CX-6V-SM2-32.768KHz C/I Statek	DS3862	TK11235BMC	FOX F3346-22MHz	TK11220BMC	CXO-M-10N-40MHz A/I
50 , Resistor, 0603, F	10 Resistor, 0603, 5.	0, Resistor, 0603, 5%		TBD, Resistor, 0603, 5%	SRAM		MAC	Baseband Processor	FLASH RAM	32 KHz Crystal	Bus Buffer	Regulator 3.5 V	22MHz Oscillator	2 Volt Refference	40MHz Oscillator
R119	R128, R129	R102, R103, R104, R109,	R117, R118, R120, R127	R121, R122, R123, R124, R125, R126	010		U12	U13	U14	U15	U45	U48	U49	U50	U51
-		ω		ဖ	-		-	-	-	-	7	- -		-	-
31	33.	33		34	35		36	37	38	39	40	41	42	43	44

FIG.46B

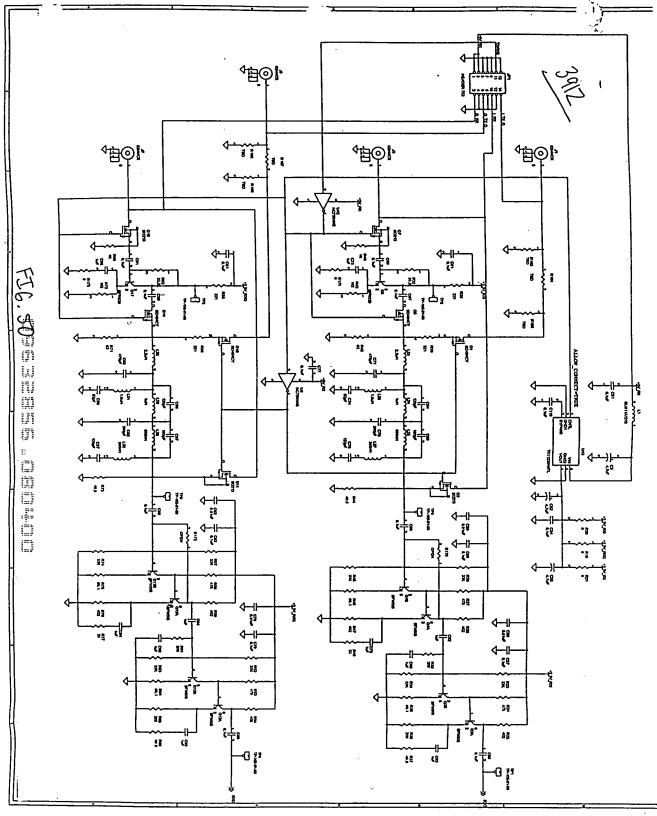


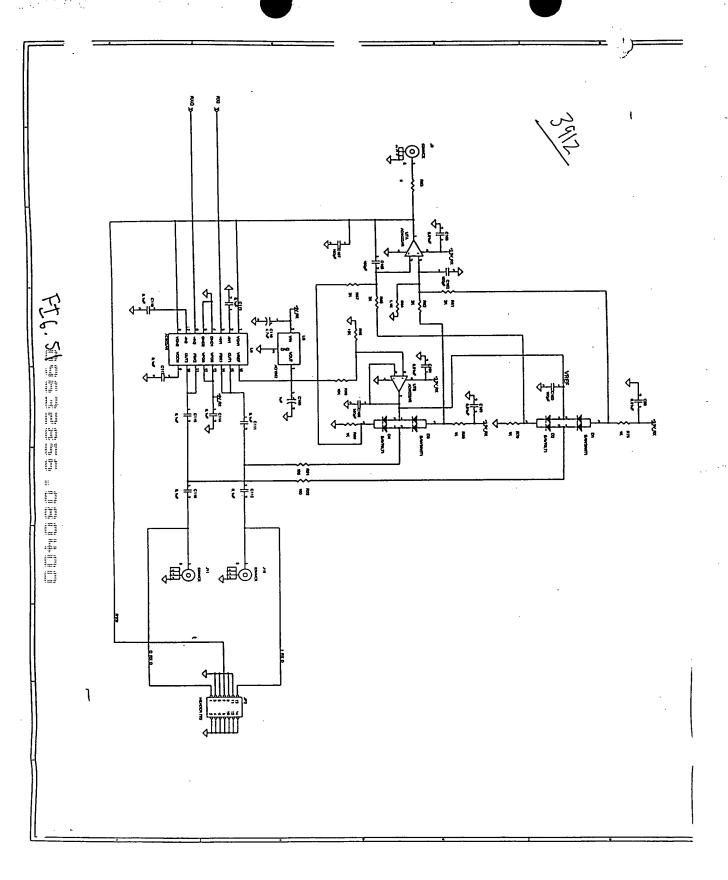


<u>Item</u>	Quantity	Reference	Part	Part Number	Manufact
	- 				Manufacturer
1	4	C3,C52,C108,C110	4.7uF	T491A475K006AS	KEMET
2	26	C51,C54,C57,C58,C60,C61,	0.1uF	GRM39Y5V104Z016	
		C67,C68,C69,C77,C79,C80		31411031341042010	Murata
		C81,C83,C89,C90,C91,C111			
		C112,C113,C114,C115,C116	5.		
		C117,C118,C119	'		
3	1	C55	DNP	T491A475K006AS	14504
1	8	C56,C59,C78,C82,C99,C101	. 0.01uF	GRM39X7R103K050	KEMET
		C103,C104	7 7 5.5 1.3.	GKW39X7K103K050	Murata
5	8	C62,C63,C66,C73,C84,C85,	1uF	CRMANYEMAGEZOAS	
		C88,C95	 	GRM40Y5V105Z016	Murata
3	4	C64,C75,C86,C97	120pF	CD11200000101105	
	2	C65,C87	180pF	GRM39COG121J050	Murata
ŭ)	2	C70,C92	390pF	GRM39COG181J050	Murata
II	2	C71,C93	470pF	GRM39COG391J050	Murata
0 .	2	C72,C94	DNP	GRM39COG471J050	
1 [7]	2	C74,C96	82pF	GRM40Y5V105Z016	Murata
! (F)		C100,C106	DNP	GRM39COG820J050	Murata
3 [[]		C105,C102	1000pF	DNP	Murata
3 []] 4 []]		D3,D1	BAW56WT1	GRM39COG102K050	
5		D4,D2	BAV70LT1	BAW56WT1	Motorola
3 :=:		JP1		BAV70LT1	Motorola
7 122		J1,J3,J5,J7,J9,J10,J11,	HEADER 7X2	FTSH-107-02-L-D	Samtec
1212		J12,J13	82MMCX	82MMCX-50-0-1	Suhner
		L1	PLAMA		
) :=:		23,L28	BLM11A121S	BLM11A121S	Murata
			2.2uH	LQG21N2R2K10	Murata
		-30,L25	1uH	LQG21N1R0K10	Murata
		26,L31	680nH	LQG21NR68K10	Murata
		-32,L27	1.8uH	LQG21N1R8K10	Murata
		Q1,Q5,Q10,Q14	390nH	LQG21NR39K10	Murata
		22,Q4,Q12,Q13	SD404CY	SD404CY	Calogic
		23,Q7,Q11,Q16	BFM505	BFM505	Philips
		217,Q8	SD213	SD213	Calogic
		R19,R20,R21,R83	BFR520	BFR520	Philips
18		13,R20,R21,R83	0	ERJ3GSY0R00	Panasonic
- 		23,R26,R34,R45,R52,R57,	33K		Panasonic
		863,R74		·	4114301110
- 6		05 000 5 15 5	475	ERJ3EKF4750	Panasonic
4			402	55.40.000	Panasonic
			221	CO 10	Panasonic
2		32,R61		CO 10 0 0 11 11	anasonic
2		33,R62	33.2K	EQ 10001	Panasonic
	IR		20.4	CO tocttone	Panasonic Panasonic

FIG. 49A

36	2	R36,R65	200	ERJ3EKF2000	Panasonic
7	6	R37,R44,R66,R73,R171,	49.9	ERJ3EKF49R9	Panasonic
		R173			
38	6	R40,R68,R78,R79,R80,R89	1K	ERJ3EKF1001	Panasonic
39	2	R42,R71	62 .	ERJ3GSYJ620	Panasonic
40	2	R43,R72	162	ERJ3EKF1620	Panasonic
41	2	R77,R48	DNP	ERJ3GSYJ330	Panasonic
42	4	R81,R82,R85,R87	2K	ERJ3EKF2001	Panasonic
43	1	R84	909	ERJ3EKF9090	Panasonic
43 44	1	R88	15K	ERJ3EKF1502	Panasonic
45	1	R90	10K	ERJ3EKF1002	Panasonic
46	2	R91,R92	100	ERJ3EKF1000	Panasonic
47	6	R164,R165,R166,R167,R168,	TBD		Panasonic
		R169			
48	2	R170,R172	OPEN		Panasonic
49	6	TP1,TP2,TP3,TP4,TP5,TP6	TP-105-01-00		
50	2	U42,U6	NC7S04M5	NC7S04M5	National Semiconductor
51	1	U7	AD8052AR	AD8052AR	Analog Devices
52	1	U8	AD1582	AD1582	Analog Devices
53	1	U9	AD605AR	AD605AR	Analog Devices
54	1	U43	TK11235AMTL	TK11235BM	Toko
55	ı		Boareis	8500,541,003	.1.2
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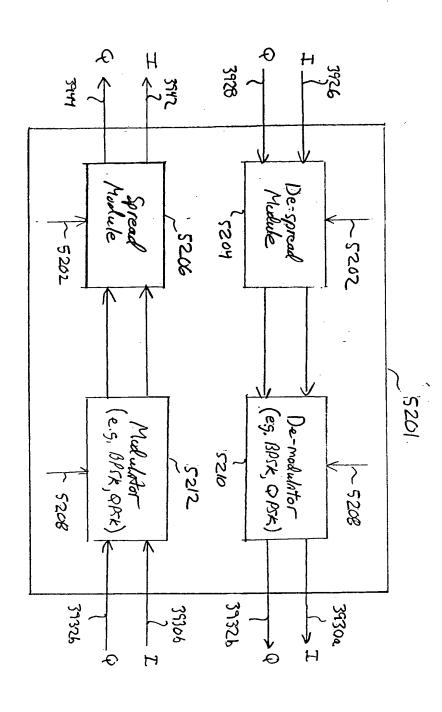
Bill Of Materials

item	Quantity	Reference	Part	Part Number	Manufacturer
1	3	C3,C52,C55	4.7uF	T491A475K006AS	KEMET
2	26	C51,C54,C57,C58,C60,C61,	0.1uF	GRM39Y5V104Z016	Murata
		C67,C68,C69,C77,C79,C80,	<u> </u>		
		C81,C83,C89,C90,C91,C111,			
		C112,C113,C114,C115,C116,			
		C117,C118,C119			
3	8	C56,C59,C78,C82,C99,C101,	0.01uF	GRM39X7R103K050	Murata
		C103,C104			
4	10	C62,C63,C66,C72,C73,C84,	1uF	GRM40Y5V105Z016	Murata
		C85,C88,C94,C95			
5	4	C64,C75,C86,C97	120pF	GRM39COG121J050	Murata
6	2	C87,C65	180pF	GRM39COG181J050	Murata
7 =	2	C70,C92	390pF	GRM39COG391J050	Murata
8	2	C71,C93	470pF	GRM39COG471J050	Murata
9	2	C96,C74	82pF	GRM39COG820J050	Murata
104	5	C100,C102,C105,C106,C107	100pF	GRM39COG101K050	Murata
4	1	C108	1uF		
	1.	C110	4.7uF		
13]]	2	D3,D1	BAW56WT1	BAW56WT1	Motorola
14	2	D4,D2	BAV70LT1	BAV70LT1	Motorola
15	2	JP2,JP1	HEADER 7X2		
16	6	J1,J3,J5,J7,J10,J11	82MMCX	142-0701-231	Johnson
17[]	1	J9	82MMCX	82MMCX-50-0-1	Suhner
18=	1	L1	BLM11A121S	BLM11A121S	Murata
19:	2	L28,L23	2.2uH	LQG21N2R2K10	Murata
20-	2	L24,L29	1uH	LQG21N1R0K10	Murata
21-	2	L30,L25	680nH	LQG21NR68K10	Murata
22	2	L26,L31	1.8uH	LQG21N1R8K10	Murata
23	2	L27,L32	390nH	LQG21NR39K10	Murata
24	4	Q1,Q5,Q10,Q14	SD404CY	SD404CY	Calogic
25	4	Q2,Q4,Q12,Q13	BFM505	BFM505	Philips
26	4	Q3,Q7,Q11,Q16	SD213	SD213	Calogic
27	2	Q17,Q8	BFR520	BFR505	Philips
28	5	R19,R20,R21,R171,R173	0		
29	8	R23,R26,R34,R45,R52,R57,	33K	ERJ3GSYJ333	Panasonic
		R63,R74			
30	4	R24,R27,R53,R58	475	ERJ3EKF4750	Panasonic
31	6	R25,R28,R47,R54,R59,R76	402	ERJ3EKF4020	Panasonic
32	4	R29,R30,R55,R56	221	ERJ3EKF2210	Panasonic
33 34	2	R32,R61	200	ERJ3GSYJ201	Panasonic
34	2	R33,R62	33.2K	ERJ3GSYJ333	Panasonic
_	4	R35,R46,R64,R75	68.1	ERJ3EKF68R1	Panasonic
	2	R36,R65	200	ERJ3EKF2000	Panasonic

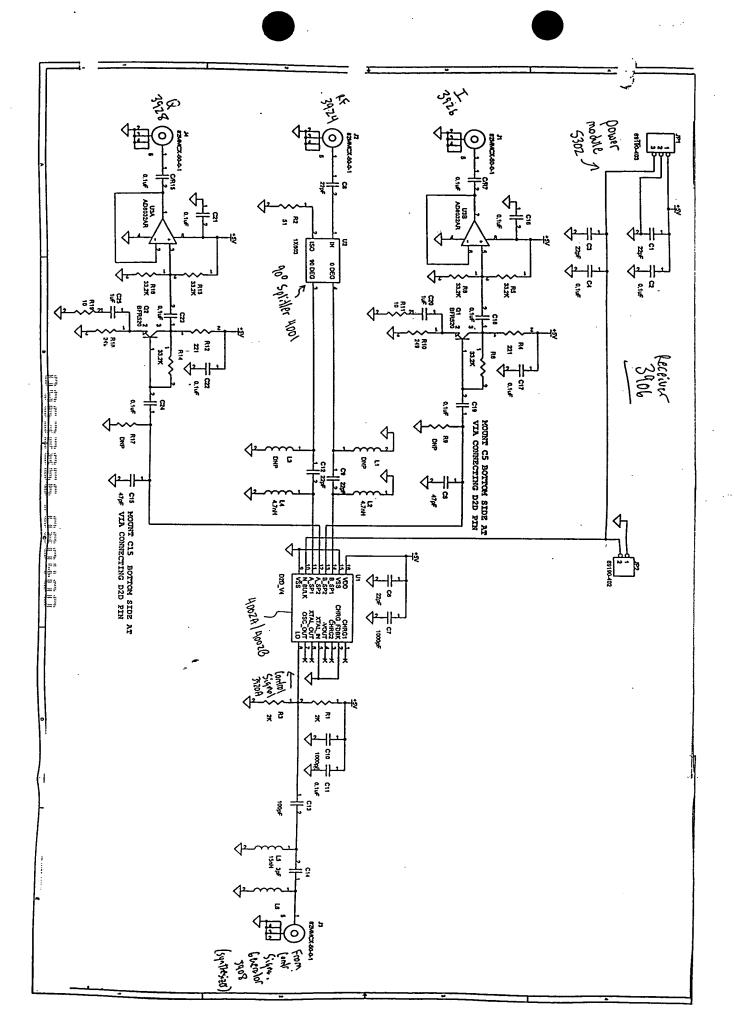
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37	2	R66,R37	49.9	ERJ3EKF49R9	Panasonic
8	6	R40,R68,R78,R79,R80,R89	1K	ERJ3EKF1001	Panasonic
39	2	R42,R71	62	ERJ3GSYJ620	Panasonic
40	2	R43,R72	162	ERJ3EKF6810	Panasonic
41	2	R44,R73	49.9	ERJ3EKF1001	Panasonic
42	2	R77,R48	33	ERJ3GSYJ330	Panasonic
43	4	R81,R82,R85,R87	2K	ERJ3EKF2001	Panasonic
44	1	R83	0	ERJGSY0R00	Panasonic
45	1	R84	1.1K	ERJ3EKF2001	Panasonic
46	1	R88	15K	ERJ3EKF1502	Panasonic
47	1	R90	10K	ERJ3EKF1002	Panasonic
48	2	R91,R92	100	ERJ3EKF1000	Panasonic
49	6	R164,R165,R166,R167,R168,	TBD		
		R169			
50	2	R170,R172	OPEN	ĺ	
51	6	TP1,TP2,TP3,TP4,TP5,TP6	TP-105-01-00		
52	2	U42,U6	NC7S04M5	1	National Semiconductor
53	1	U7	AD8032AR	AD8032AR	Analog Devices
54	1	U8	AD1582	AD1582	Analog Devices
55	1	U9	AD605AR	AD605AR	Analog Devices
56	1	U43	TK11235AMTL	TK11235AMTL	Toko

FIG. 52B



IG. 52_C



Page1

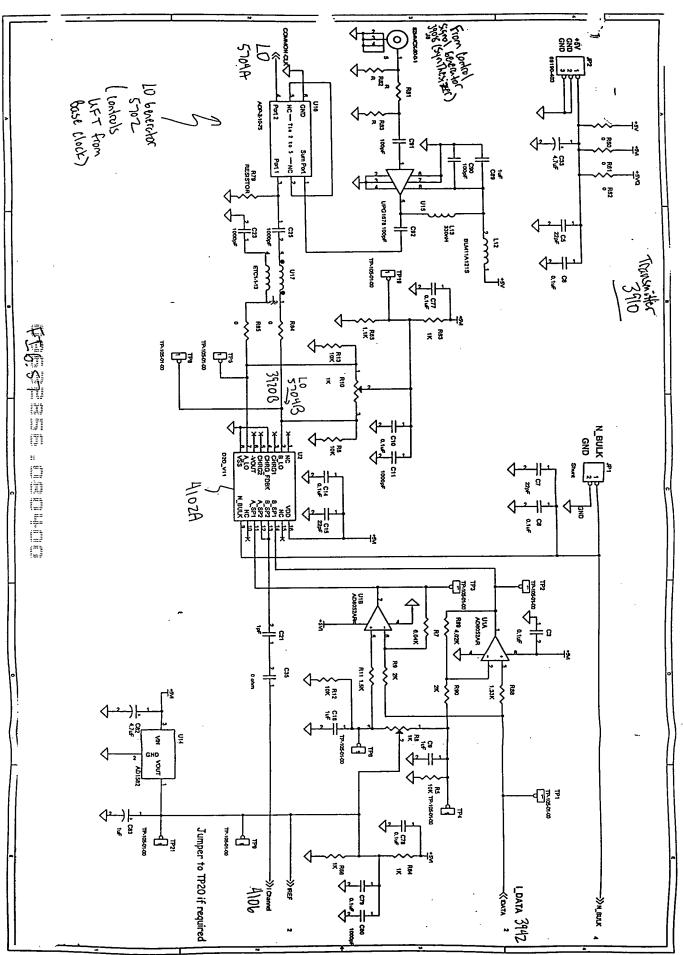
Item	Quantity	Reference	Part	Part Number	Manufacturer
1	10	C/R7,C/R15,C16,C17,C18,	0.1uF	GRM39Y5V104Z016	1
•	 	C19,C21,C22,C23,C24	0.101	GRIVI3915V104Z016	Murata
2	6		00-5		ļ <u></u>
3	3	C1,C3,C6,C8,C9,C12	22pF	GRM39COG220J050	Murata
		C2,C4,C11	0.1uF	GRM39X7R104K016	Murata
4	2	C5,C15	47pF	GRM39COG470J050	Murata
5	2	C10,C7	1000pF	GRM39X7R102K050	Murata
6	11	C13	100pF	GRM39X7R101J050	Murata
7	1	C14	3pF	GRM40COG030B50V	Murata
8	2	C20,C25	1uF	GRM40Y5V105Z016	Murata
9	1	JP1	69190-403	69190-403	BERG
10	1	JP2	69190-402	69190-402	BERG
11	4	J1,J2,J3,J4	82MMCX-50-0-1	82MMCX-50-0-1	Suhner
12	2	L3,L1	DNP	L	ТОКО
13	2	L4,L2	4.7nH	LL1608-F4N7K	токо
14	1	L5	15nH	LL2012FH15NJ	токо
15	1	L6	DNP	DNP	токо
16	2	Q1,Q2	BFR520	BFR520	Philips
17	2	R1,R3	2K	ERJ3GSYJ202	Panasonic
18	1	R2		ERJ3GSYJ510	Panasonic
19	2	R4.R12		ERJ3EKF2210	
20	6	R5,R6,R8,R13,R14,R16		ERJ3EKF3322	Panasonic
21		R9,R17		ERJ3EKF1001	Panasonic
22		R10,R18		ERJ3EKF2490	Panasonic
23		R11,R19			Panasonic
24		U1			Panasonic
25		U2			Parker Vision
26		U3			Anaren
27	1 !	03	AD8032AR	AD8032AR	Analog Devices

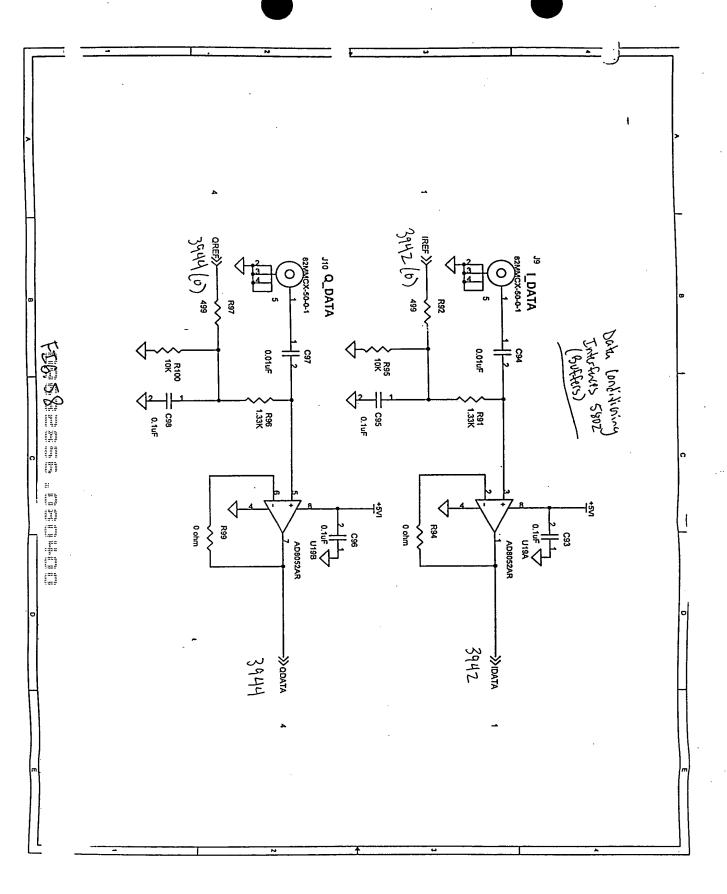
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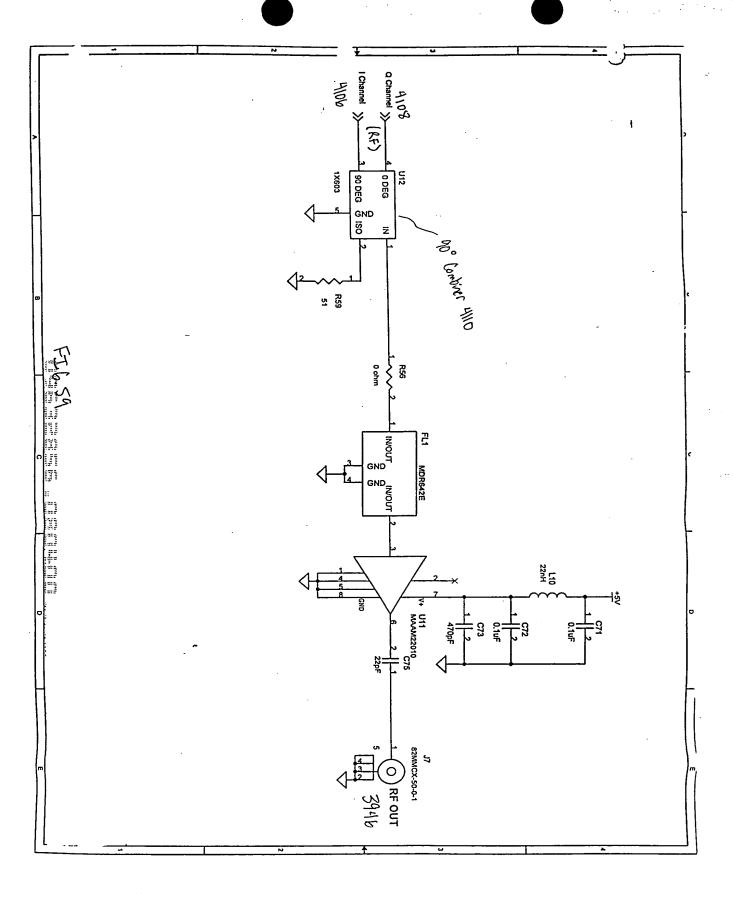
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	R13	R12	R10	R9, R17	R8	R4	R1,R2,R3,R11,R30	2	L14	L4,L6,L9,L10,L11,L12			J5,J6	JP3	JP2	JP1	R16,C31, R17	C23,C24,C27	C22,C32,C33,C34	C20,C18	C16	C15	C14	C13,C35,C36,C37	C12	C11	C6	C4,C8,C17	C29,C2	C1,C3,C5,C7,C9,C10	CR1	Reference			-		
Hong II St	1 5X	13K	3300	75	24	10	 	BFR520	82nH	BLM11A121S	0 Ohm	18nH	82MMCX	TSW-104-08-T-S	FTSH-105-02-F-D	FTSH-110-02-F-D	0 ohm	4.7uF	DNP	22pF	4700pF	12pF	1500pF	1000pF	6.8pF	3.3pF	220pF	.01uF	0.1uF	100pF	BBY51-E6327	Part					
A telle a terr period	1 5K 5% 0603		Resistor, 3.3K, 5%, 0603	5%, 0603	Resistor, 2K, 5%, 0603	Resistor, 10 ohm, 5%, 0603	Resistor, 1K, 5%, 0603	Transistor, NPN	Inductor, 82nH, 10%, 0805	Ferrite Bead, 0603	Zero Ohm Jumper	Inductor, 18nH, 10%, 0805	RF Connector	Header, single row 4 pin, .100"	Header, dual row 5x2, .050x.050	Header, dual row 10x2, .050x.050	Resistor, zero ohm, 0603	Capacitor, tantalum, 4.7uF, 10%, 3216		- 1	. 1	12pF, 5%	1500pF,	Capacitor, ceramic, 1000pF, 10%, X7R, 0603	Capacitor, ceramic, 6.8pF, +/25pF, COG, 0603	3.3pF,	220pF, 5%, 0	ceramic, .01uF, 10%	.1uF, 10%, X7R, 06	Capacitor, ceramic, 100pF, 10%, COG, 0603	Dlode, Varactor	Description					
ELYAGOLYISZ				ERJ3GSYJ750	ERJ3GSYJ202	ERJ3GSYJ1R0	ERJ3GSYJ102	BFR520	LL2012-F82NK	BLM11A121S	RM73ZIJT	0805CS-180XJBC	82MMCX-50-0-1	TSW-104-08-T-S	FTSH-105-02-F-D	FTSH-110-02-F-D	ERJ3GSY0R00	T491A475K006AS		GRM36COG220K050	GRM39X7R472K016	GRM39CO&150J050	GRM39X7R152K016	GRM39X7R102K016	GRM39COG6R8C100V	GRM39COG3R3B100V	GRM39COG221J025	GRM39X7R103K050	GRM39X7R104K016AD	GRM39COG101K050	BBY51-E6327	Part Number					
ranason's	allasollic	Danasonio	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Philips	Toko	Murata	KOA	Collcraft	Suhner	Berg	Samtec	Samtec	Panasonic	Kemet	Murata	Murata	Murata	Murata 4		Murata	Murata	Murata	Murata	Murata	Murata	Murata	Siemens	Manufacturer					

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	6	18	<u>C</u> 5	07	Z Z	U2			7	70.	X3/		R36	スラスマ	040	X15	7.7	212
578500.641.008	JOEC 1070GV	1100187901/	74125	1011700VIVIT	TV44020ANT	CXO-3M-10N-40MHz Ytal Occ 40MHz	FE9202A	ロロコンロント	1 est Point	1		- 50	TBO	CNT		DND	220	330
BONEY	IC, Kr Amplilier		IC BUFFFR	Voltage Regulator, 3.5V	7/10 C30, TOWITZ	Ytal Oce ADMU-	IIC, Synthesizer				Resistor 0603	Resistor, zero onm, 0603		Resistor, 91 ohm, 5%, 0603		Resistor zero ohm OSO2	Kesistor, 220 onm, 5%, 0603	
	UPC1678GV	INC / 4 CCY 1 7 2 D 1	WOTE OVERT	TK11235BM	CXC-3M-10N-40MHZ A/I Statek		PE3282A					ERJ3GSY0R00	11,0000,0010	ER 1305Y 1010	「日本とららいての大のこ		ERJ3GSYJ221	
	NEC	Motorola	1000	Toko	Statek	. 0.080	Derentine			Panasonic	,	Panasonic	L dilasollic	000000	Panasonic		Panasonic	







Page1

Bill Of Materials

Item	Quantity	Reference	Part	Part Number	Manufacturer
,					
1	21	C3,C6,C8,C10,C14,C38,C44,	0.1uF	GRM39X7R104K016	Murata
-,, ;,(-		C46,C51,C71,C72,C77,C78,			
		C79,C84,C85,C86,C93,C95,			
1:		C96,C98			
2	6	C5,C7,C15,C43,C52,C75	22pF	GRM39COG220J050	Murata
3	5	C9,C16,C45,C53,C89	1uF	GRM40Y5V105Z016	Murata
4	8	C11,C23,C25,C47,C61,C63,	1000pF	GRM39X7R102K050	Murata
		C80,C87			
5	2	C58,C21	1pF	GRM39COG010B50V	Muçata
6	2	C82,C33	4.7uF	T491A475K006AS	KEMET
7	2	C59,C35	0 ohm	GRM39COGxxx50V	Murata
8	1	C73	470pF	GRM39COG471J050	Murata
9	1	C83	1uF	T491A105M016AS	Kemet
10	3	C90,C91,C92	100pF	ECU-V1H101JCV	
11	2	C94,C97	0.01uF	GRM39X7R103K016	Murata
12	1	FL1	MDR642E	MDR642E	Soshin
13	1	JP1	Shunt	69190-402	BERG
14	1	JP2	69190-403	69190-403	BERG
15	4	J7,J8,J9,J10	82MMCX-50-0-1	82MMCX-50-0-1	Suhner
16	1	L10	22nH	LL1608-F22NK	Coilcraft
17	1	L12	BLM11A121S	BLM11A121S	Murata
18	1	L13	330nH	LL2012-FR33K	
19	10	R5,R6,R12,R13,R32,R33,	10K	ERJ3EKF1002	Panasonic
		R39,R40,R95,R100			
20	2	R34,R7	6.04K	ERJ3EKF6041	Panasonic
21	4	R8,R10,R35,R37	1K	3224W-1-102	Bourns
22	4	R9,R36,R90,R103	2K	ERJ3EKF2001	Panasonic
23	2	R38,R11	1.5K	ERJ3EKF1501	Panasonic
24	3	R56,R94,R99	0 ohm	ERJ3GSY0R00	Panasonic
25	1	R59	51	ERJ3GSYJ510	Panasonic
26	7	R60,R61,R62,R84,R85,R86,	0	ERJ3GSY0R00	Panasonic
		R87			· unasonio
27	6	R63,R64,R66,R69,R70,R72	1K	ERJ3EKF1001	Panasonic
28	2	R71,R65	1.1K	ERJ3EKF1101	Panasonic
	2	R80,R79	RESISTOR		. 4.14501110
30	3	R81,R82,R83	R		
31	4	R88,R91,R96,R101	1.33K	ERJ3EKF1331	Panasonic
32	2	R102,R89	4.02K	ERJ3EKF4021	Panasonic
33	2	R92,R97	499	ERJ3EKF4990	Panasonic
34	19	TP1,TP2,TP3,TP4,TP5,TP6,	TP-105-01-00	C. WOLIN 4330	i aliasuliic

FIG. blA

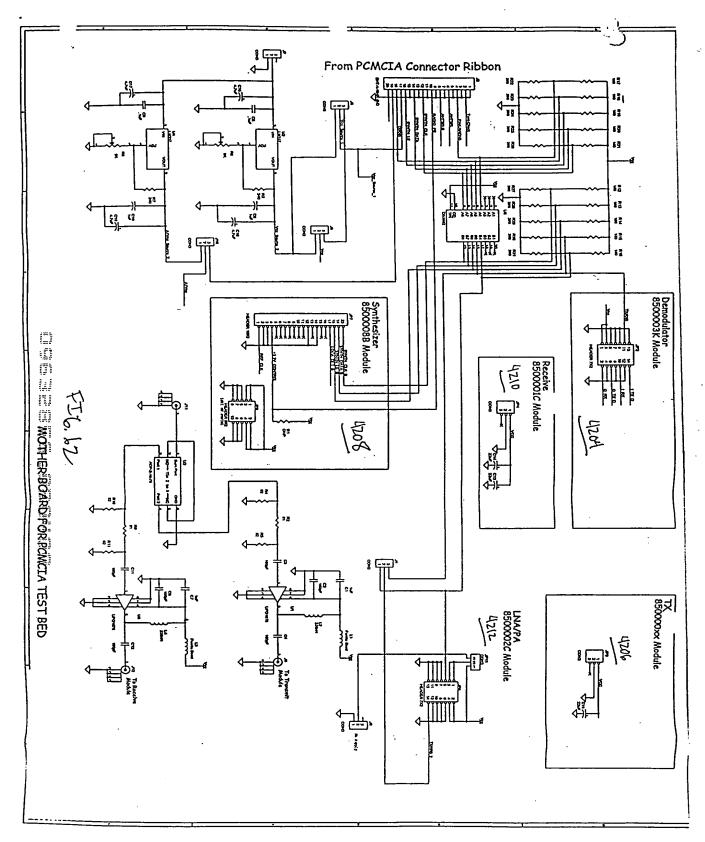
		TP8,TP9,TP11,TP12,TP13,			
		TP14,TP15,TP16,TP18,TP19,			
		TP20,TP21,TP22			
35	3	U1,U6,U19	AD8052AR	AD8052AR	Analog Devices
36	2	U7,U2	D2D_V11	D2D_V11	Parker Vision
37	1	U11	MAAM22010	MAAM22010	MACOM
38	1	U12	1X603	1X603	Anaren
39	1	U14	AD1582	AD1582	Analog Devices
40	1	U15	UPG1678	UPG1678GV	NEC
41	1	U16	ADP-2-10-75	ADP-2-10-75	Mini-Circuits

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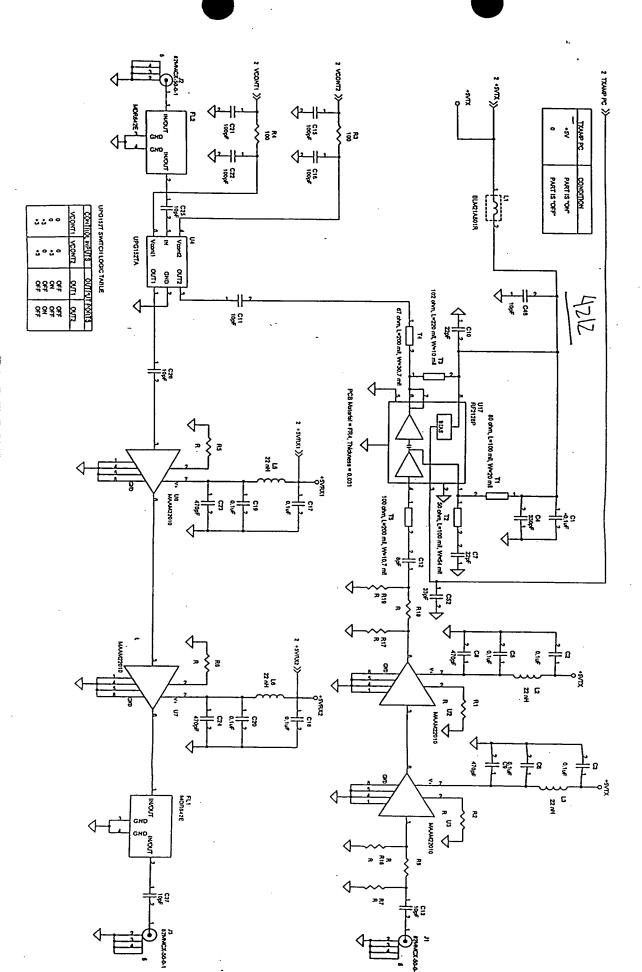


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	Co	Us	04,02	U5,U1	R27, R28, R29, R30, R31	R17, R18, R19, R20, R21	スペスの	R4,R5,R10,R11	R7,R3	R9,R2	R1	L4,L2	L3,L1	J8,J11,J12	J2	JP8	JP7	J10, JP11	JP2,JP6	C15,C16,C17,C18	C13,C14,C19	C5,C9	C2,C3,C4,C8,C11,C12	C1,C6,C7,C10	Reference	Bill Of Materials	
	DS3862	ADP-2-10-75	LM:31/	UPG1678	390	180	58	82	240	91	DNP	330nH	Ferrite Bead	82MMCX-50-0-1	EHT-1-10-01-S-D	HEADER 5X2	HEADER 10X2	CON3	HEADER 7X2	4.7uF	22uF	.1uF	100pF	1uF	Part		
Bones	IC, Buffer	RF Splitter	IC, Voltage Regulator	IC, RF Buffer	Res, 390 Ohm, 5%, 0603	Res, 180 Ohm, 5%, 0603	Var Res, 5K, 10%	욹	Res, 240 Ohm, 5%, 0603	Res, 91 Ohm, 5%, 0603		Ind, 330nH, 10%, 0805	Ferrite Bead, 0805	Connector, RF	Header, ribbon, 10x2pin, 2mm	Receptacle, 5x2pin, .050	Receptacle, 10x2pin, .050	Header, 3pin, .100"			Tant, 22uF, 20%		Cap, 100pF, 5%, COG, 0603	Cap, 1uF, +80-20%, 0805	Description		
STB500. 641.023 VOLO1	DS3862WM	ADP-2-10-75	LM317T	UPG1678GV	ERJ-3GSYJ391	ERJ-3GSYJ181	3296W001502	ERJ-3GSYJ820	ERJ-3GSYJ241	ERJ-3GSYJ910		LL2012-FR33K	BLM21A121S	82MMCX-50-0-1	EHT-1-10-01-S-D	SFMC-105-L1-S-D	SFMC-110-L1-S-D	69190-403	SFMC-107-L1-S-D	T491C475M020AS	T491D226M020AS		ECU-V1H101JCV	GRM40Y5V105Z016AD	Part Number		
10	National	MiniCircuits	National	NEC	Panasonic	Panasonic	Boums	Panasonic	Panasonic	Panasonic	Panasonic	Toko	Murata	Suhner	Samtek	Samtek	Samtek	Berg	Samtek	Kemet	Kemet	Murata	Panasonic	Murata	Vendor		

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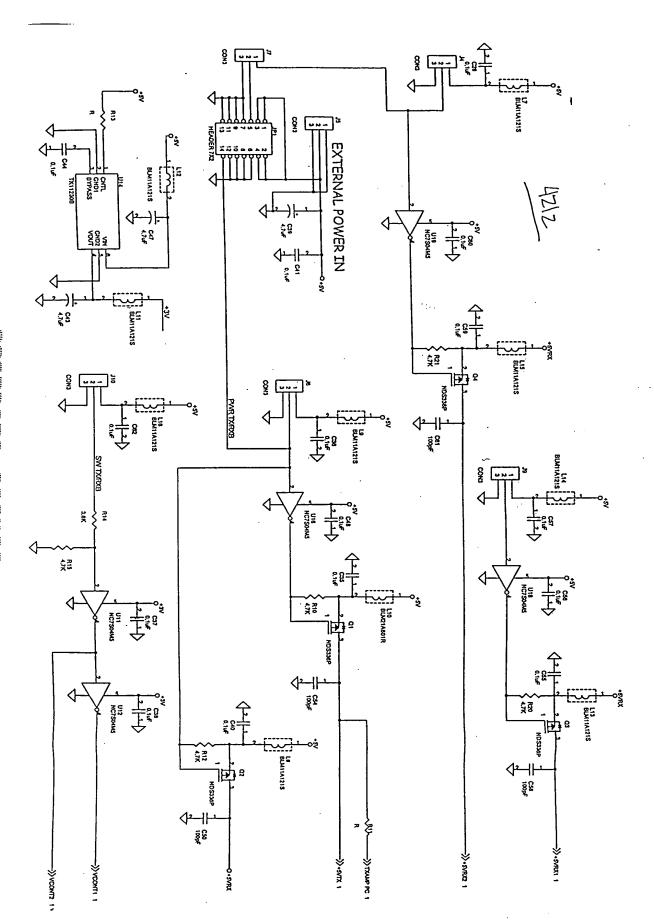
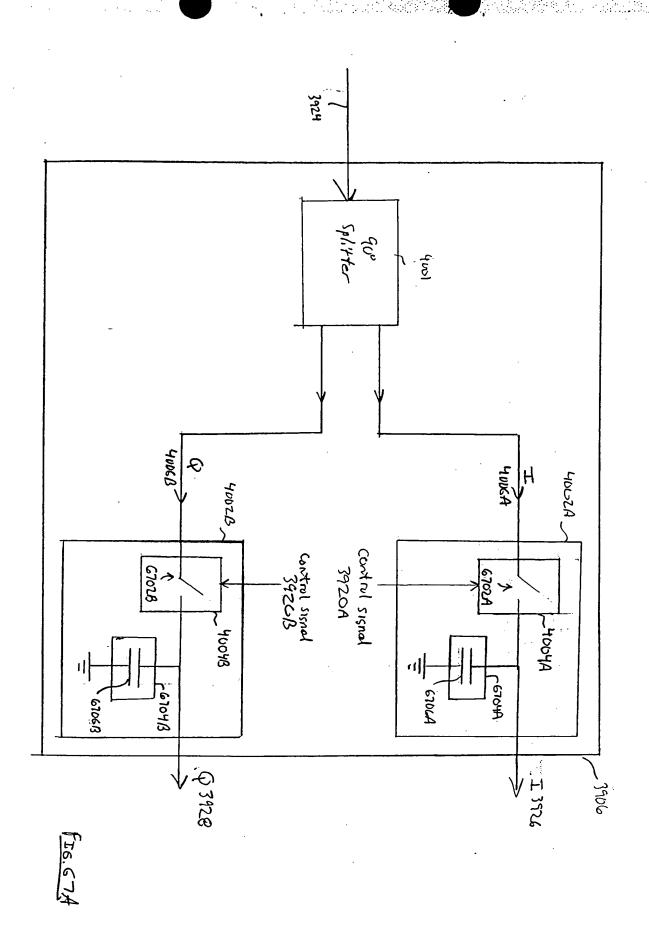
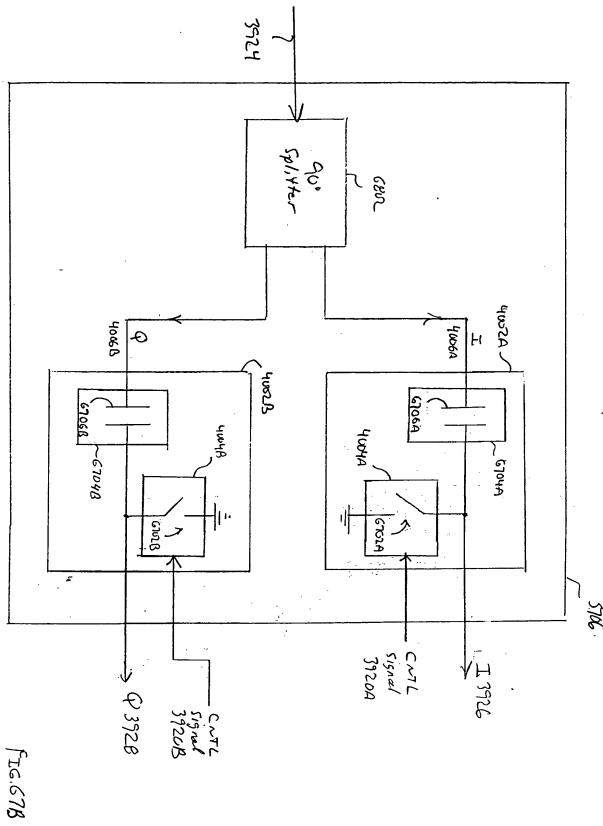


FIG. 65

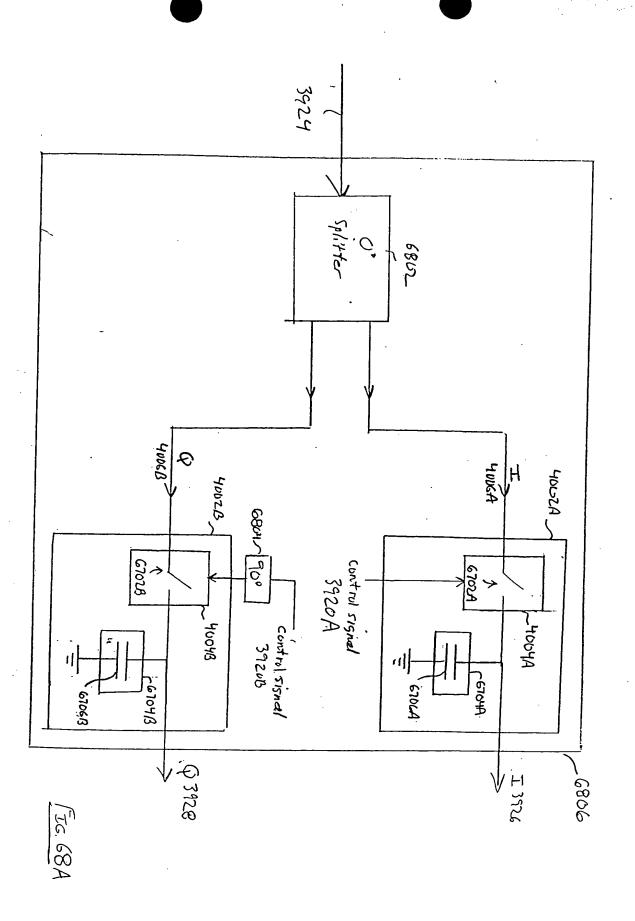
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	1147		U11.U12.U16.U18.U19		U2,U3,U6,U7	T5	T4	Т3	12	T1	X14	K10,K12,K15,R20,R21		R13,R16,R17,R18,R19	R1,R2,R5,R6,R7,R9,R11,	Q1,Q2,Q3,Q4	L15,L16	L7,L8,L9,L11,L12,L13,L14.	L2.L3.L5.L6	L10,L1	J4.J5.J6.J7.J9.J10	J1,J2,J3	JP1	FL1,FL2	C52	C39,C43,C47	C58.C61	C15 C16 C21 C22 C50 C54	C12	C11 C13 C25 C26 C27 C46	C8 C9 C23 C24	C10 C7	C30,C37,C39,C00,C02	C56 C57 C50 C55 C55	C19,C20,C28,C35,C36,C37,	C1,C2,C3,C5,C6,C17,C18,	Ш	Bill Of Materials	
X721207	חביים ביים			UPG152TA	MAAM22010 MACOM	100 ohm, L=200 m	67 ohm, L=200 mil, W=30.7 mil	102 ohm, L=220 mil, W=10 mil	50 ohm, L=100 mil, W=54 mil	80 ohm, L=100 mil	3.68	4.7K	100		R	NDS336P		BLM11A121S	22 nH	BLM21A601R	CON3	inl.	HEADER 7X2	MDR642E	33nF	4.7uF	200	10005	800	1000	4705E	S S S S S S S S S S S S S S S S S S S				0.1uF	Part		
XTMC		TOKO	National	NEC		il. W=10.7 mil	l, W=30.7 mil	il, W=10 mil	l, W=54 mil	L=100 mil, W=20 mil	Panasonic	Panasonic	Panasonic		Panasonic	National		Murata	Coilcraft	Murata	Bem	Subner	Samter	Soshin	Mirata	Panasonic	ININIAIA	Museta	Musata	Murata	Murata	Murata				Murata	Manufacturer		
Medium Power Linear Amplifier			CI	3 110	AA-10.7 1111	ş :	≀ا≲	102 ohm. L=220 mil. W=10 mil	50 ohm, L=100 mil. W=54 mil	80 ohm, L=100 mil, W=20 mil			0603, 100, 5%, 1/16 W			P-Channel FET	TO COOL	PE Bood	7	Son chase 100MHz For a Farm Salar	3 pin booder with the	RE Connector	Direl Dow 7 sine possession	2 4-2 5GH7 BBE	2200E 0603 COC 4507 CO	4.7 IJE tantalism 18V	100pF,0603,COG,T0%,50	apr, 1003, COG, 10%, 50	10pr,0603,COG,10%,50	4/0pF,0603,COG,10%,50	22pr,0603,COG,10%,50	330pF,0603,COG,10%,50				.1uF,0603,X7R,20%,16V	Part Description		
RF2128P	TK11230B	NC7S04M5	UPG152TA	MAAM22010						11.000.000	FR.I-3GSY_1-369	ERJ-3GSY-,1-479	ERJ-3GSY-J-101		1400000	ND 03350	BLM11A121S	0805CS-220X-BC	BLM21A601R	69190-403H	82MMCX-50-0-1	F I SH-107-01-F-D	MUX642E	GRM39COG330K050	ECS-11CY475R		GRM39COG101K050	GRM39COG080K050	GRM39COG100K050	GRM39COG471K050	GRM39COG220K05	GRM39COG331K050				GRM39X7R104MO16	Part Number		

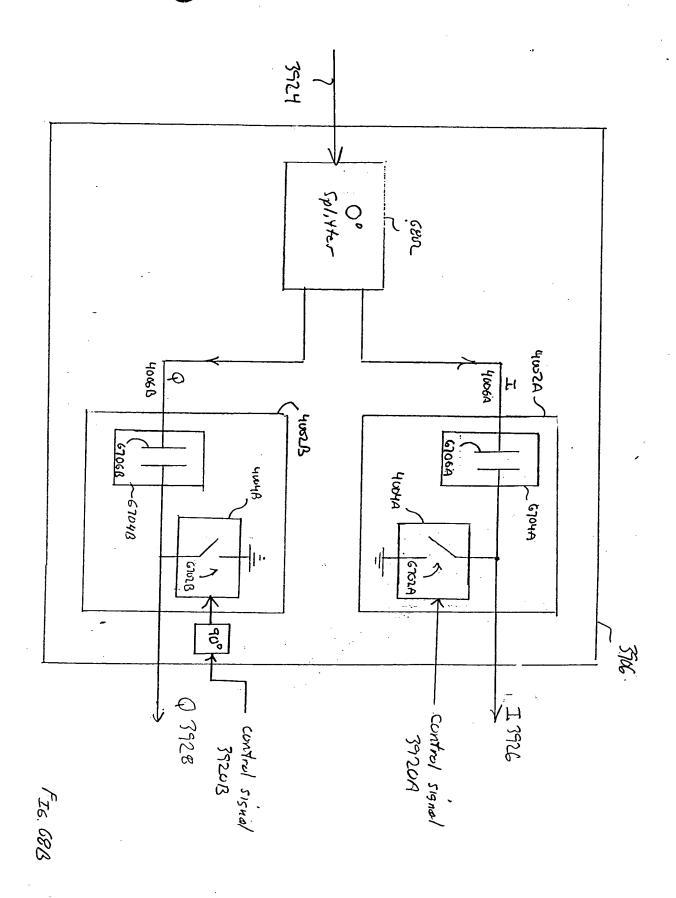
99.914



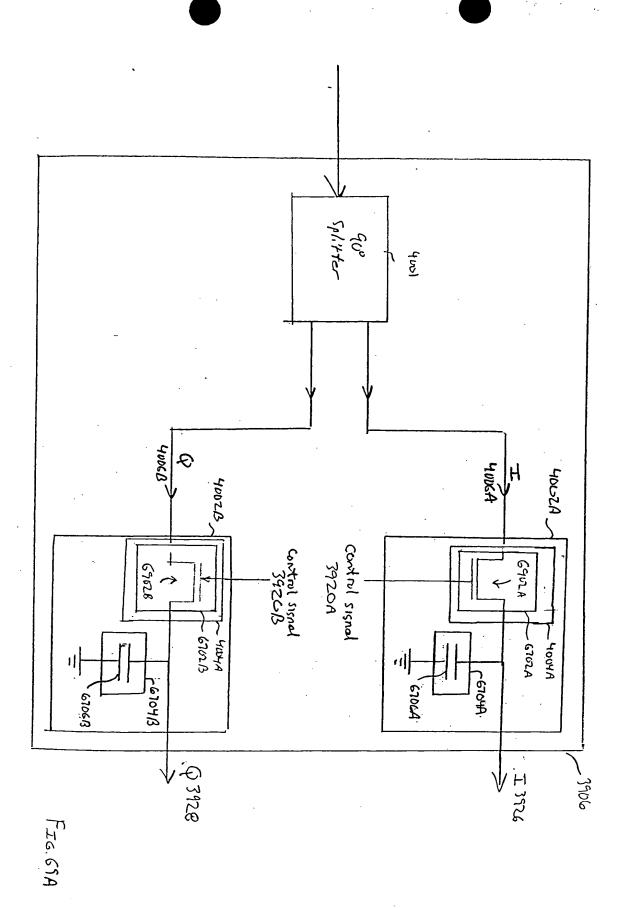


42-99 IMPRECICIED WHITE SSOUNIE 42-399 ZOORECYCLED WHITE SSOUNIE Michini U.S.A.



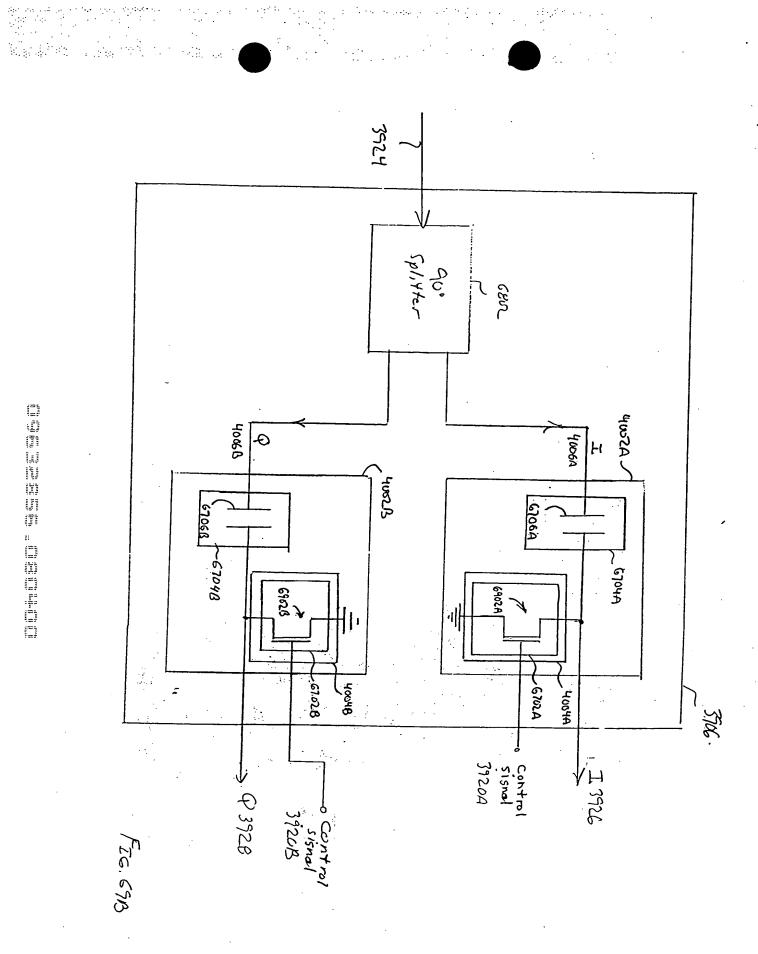


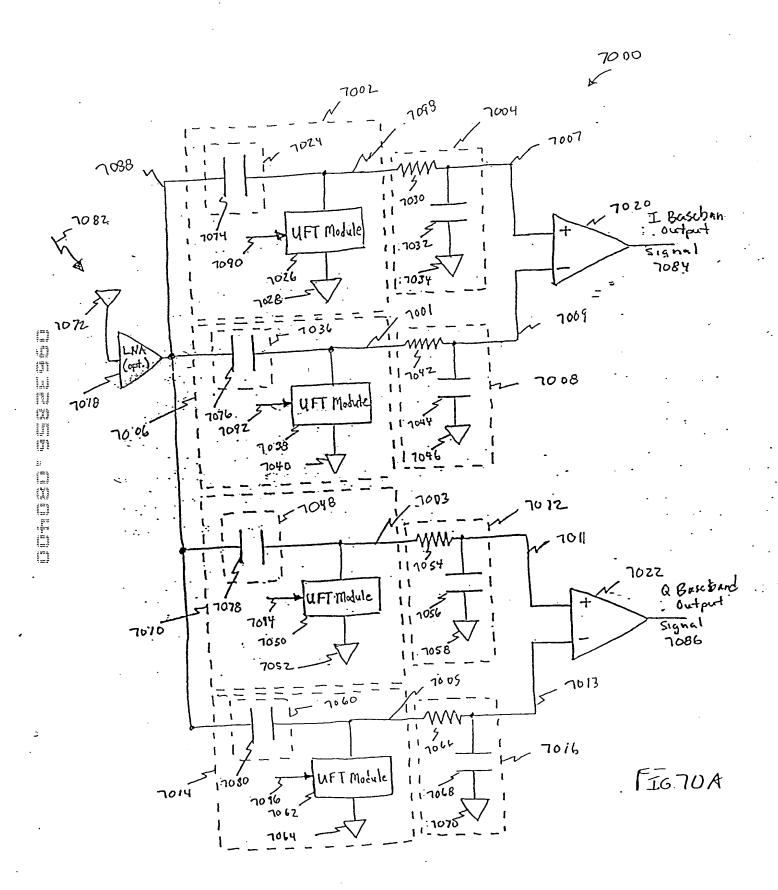
42-392 100 RECYCLED WHITE \$ \$KUNTE 42-399 200 RECYCLED WHITE \$ \$KUNTE MICH IN U.S.A. ·.



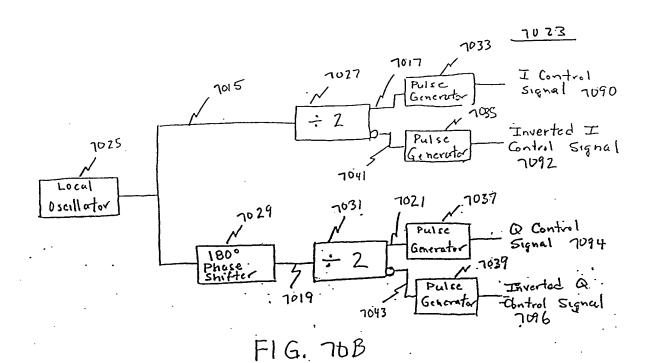
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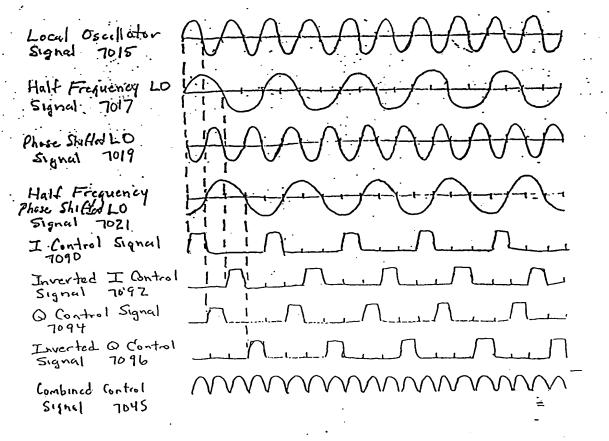


FIG. 70 C

The light of the last term for the last term to the last

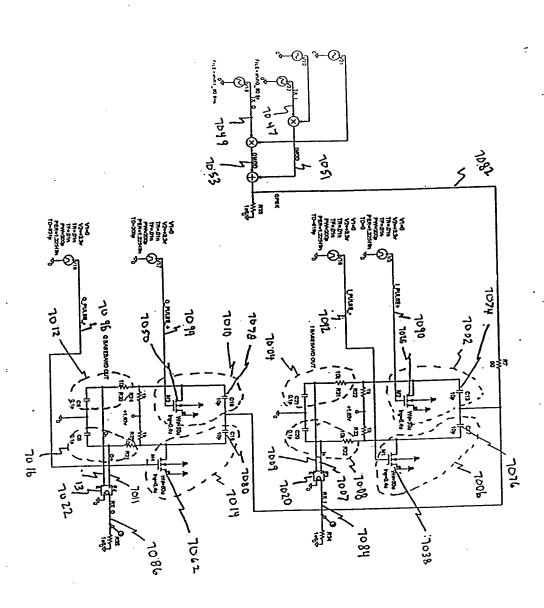


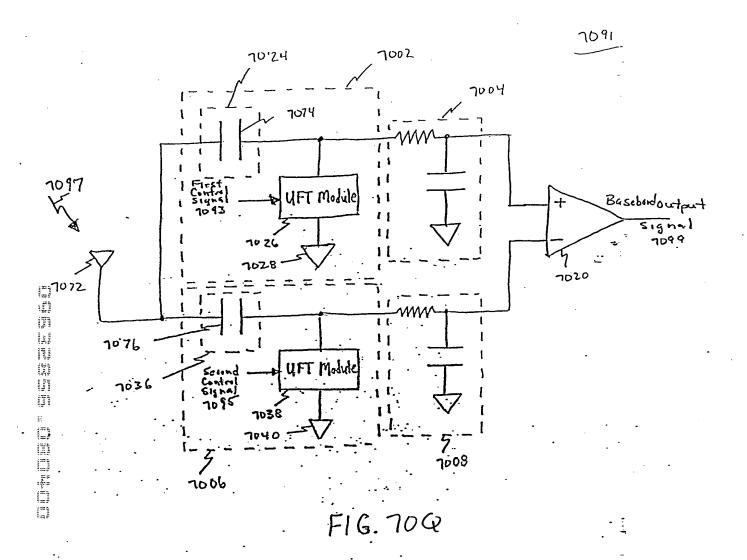
FIG. 70E

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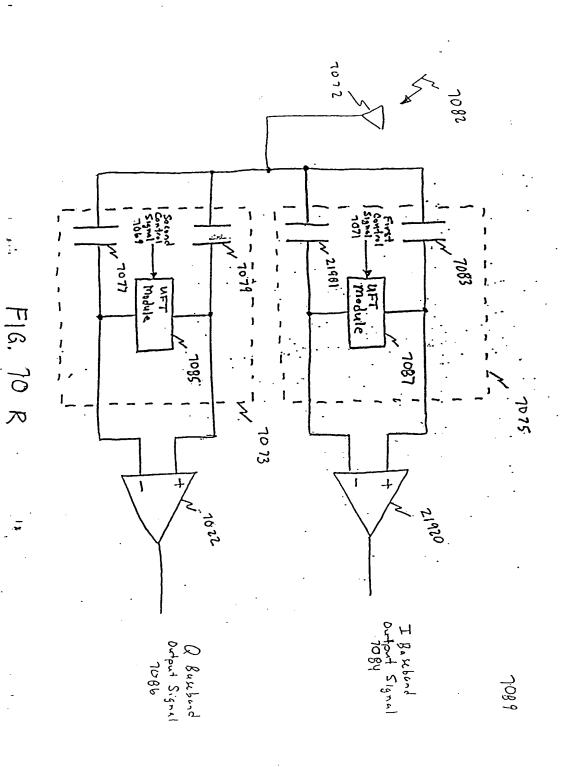
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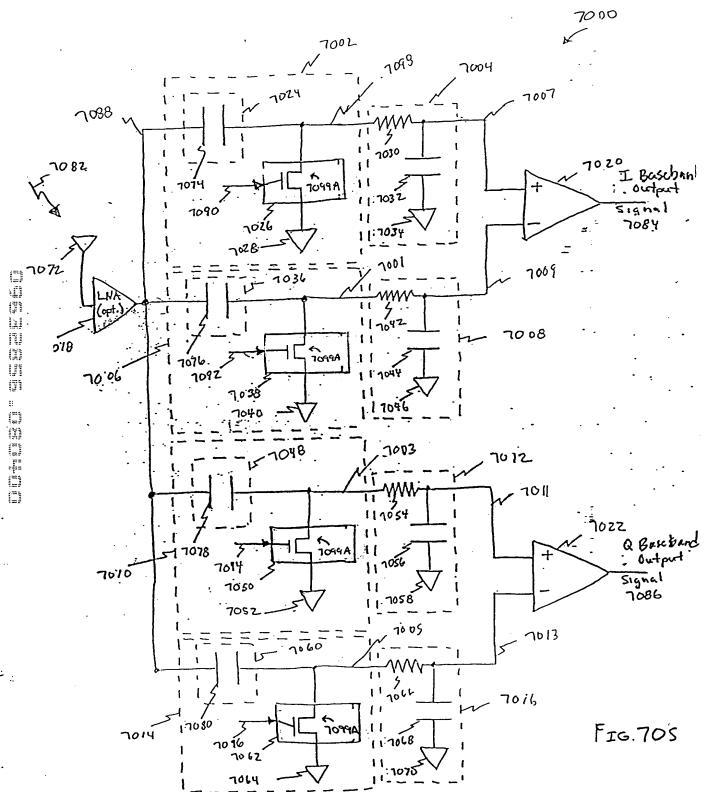


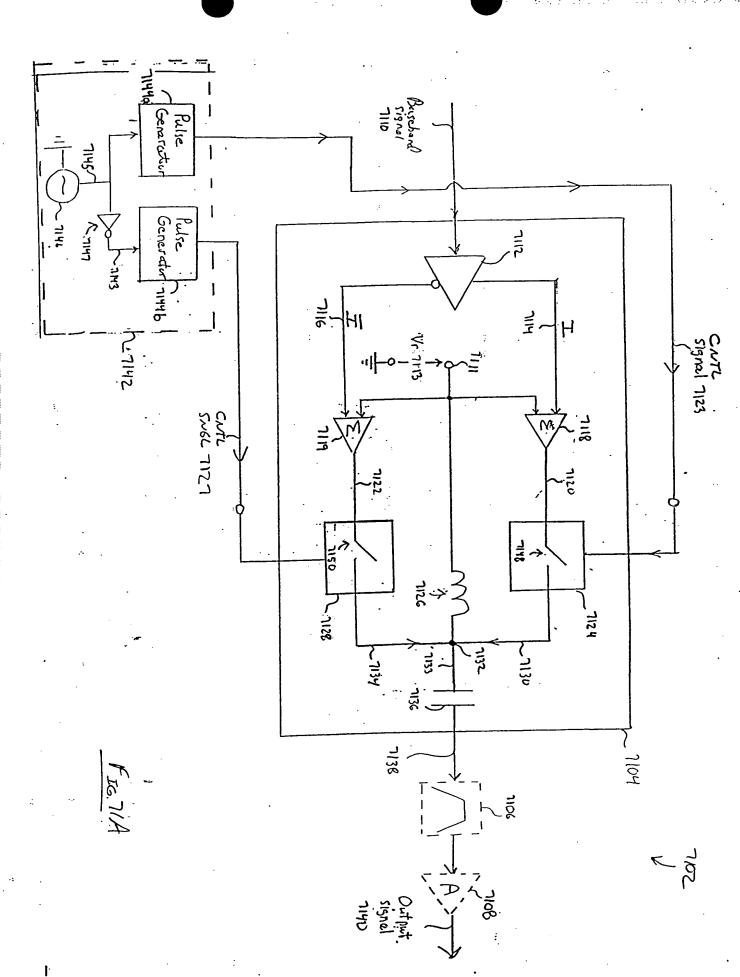
.

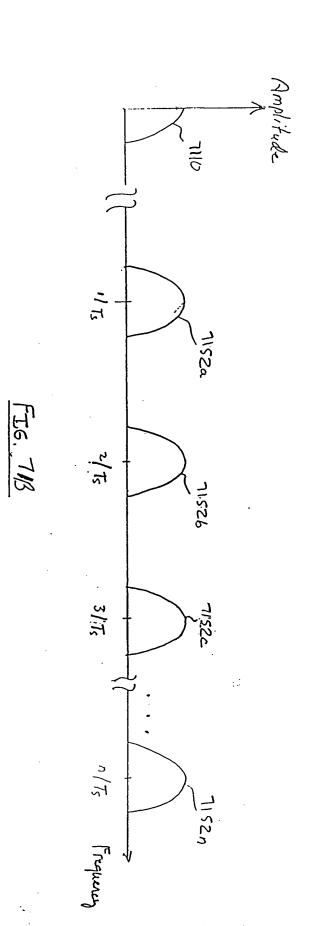
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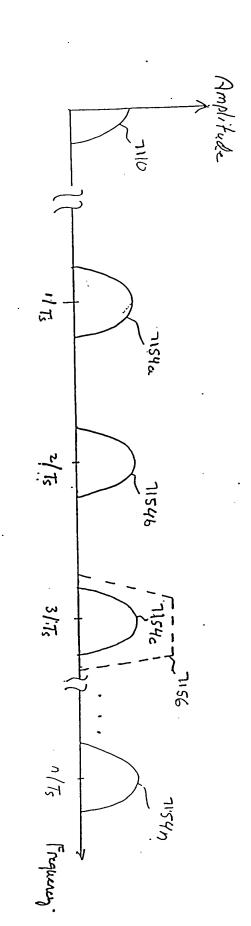
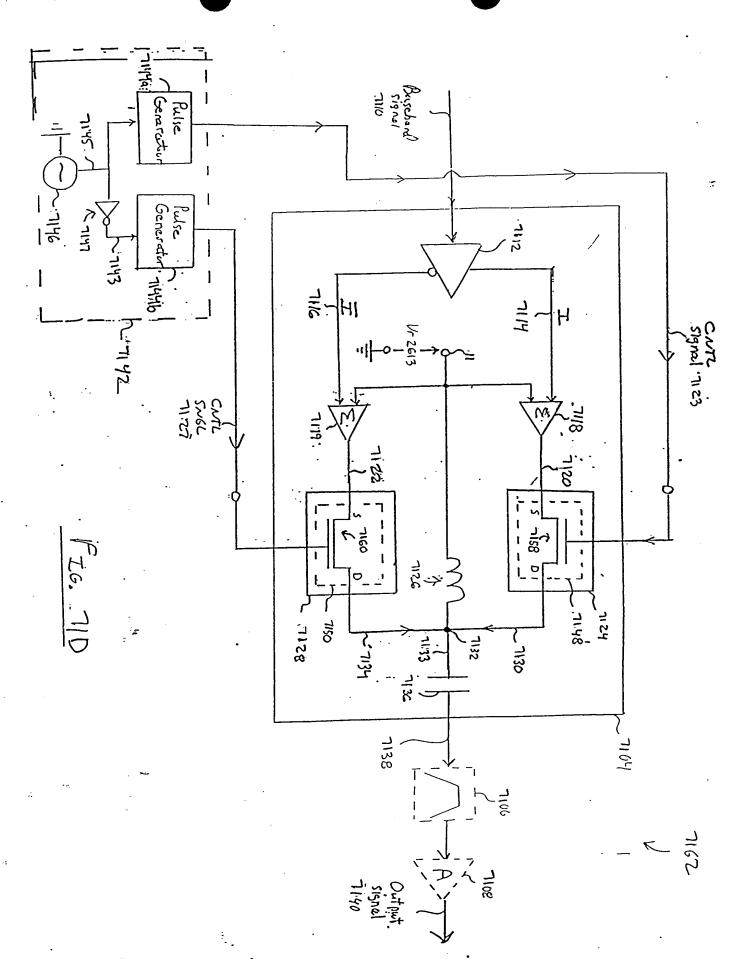
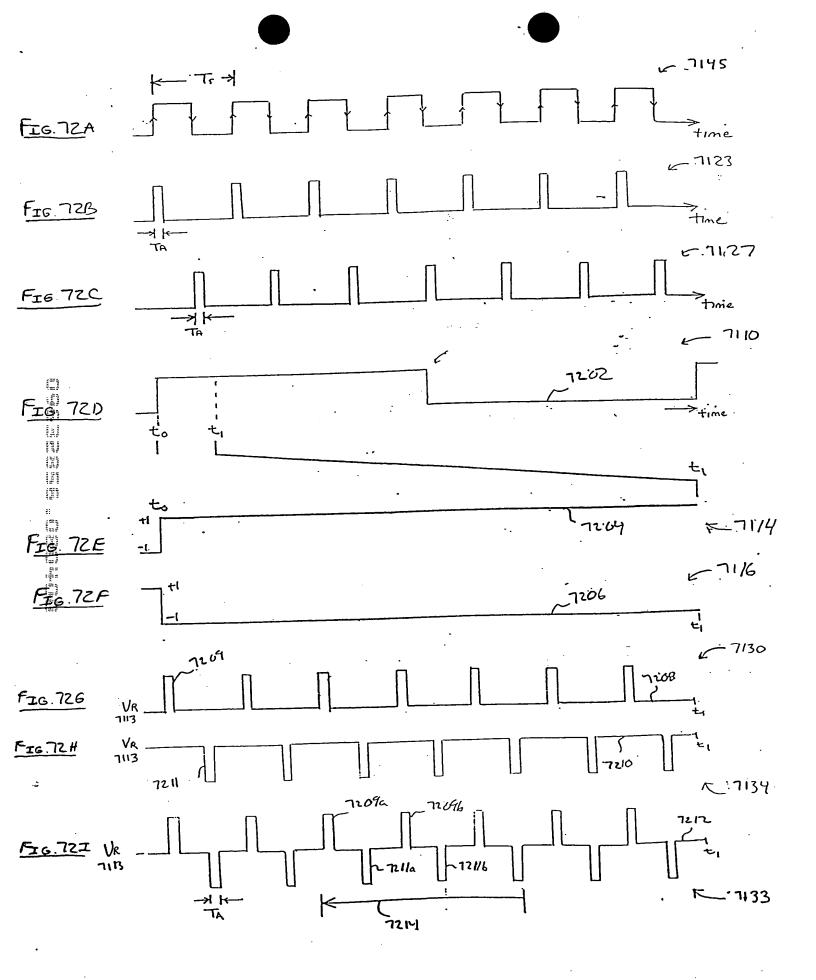


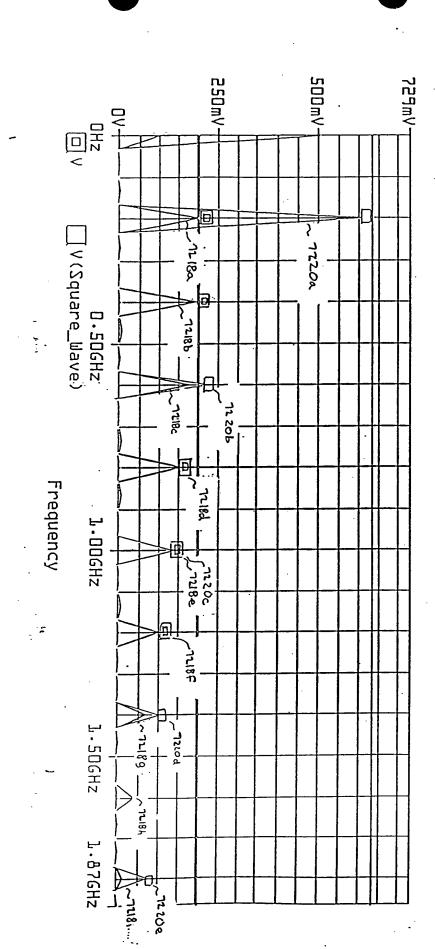
FIG TIC



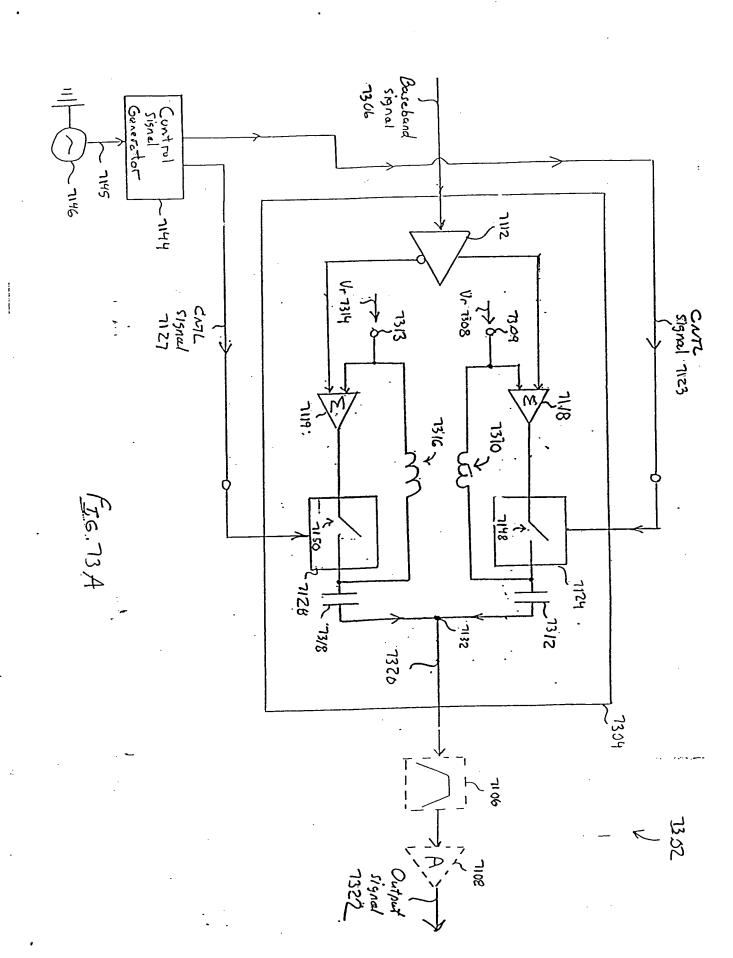


Aperture = 500ps
Fundamental Clock = 200Mhz (5th Subharmonic)

Square Wave Frequency = 200Mhz



(IG. 72)



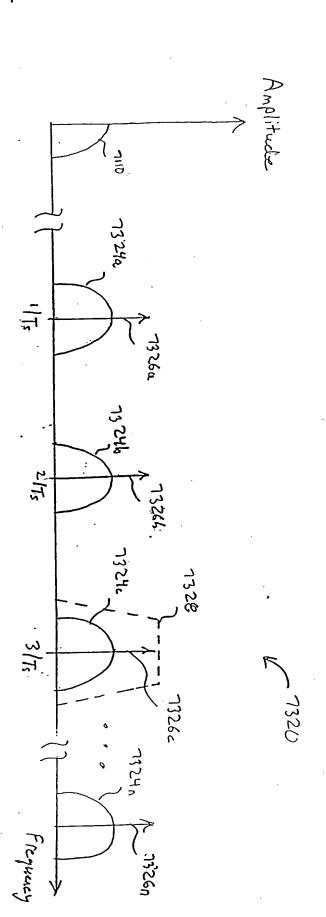
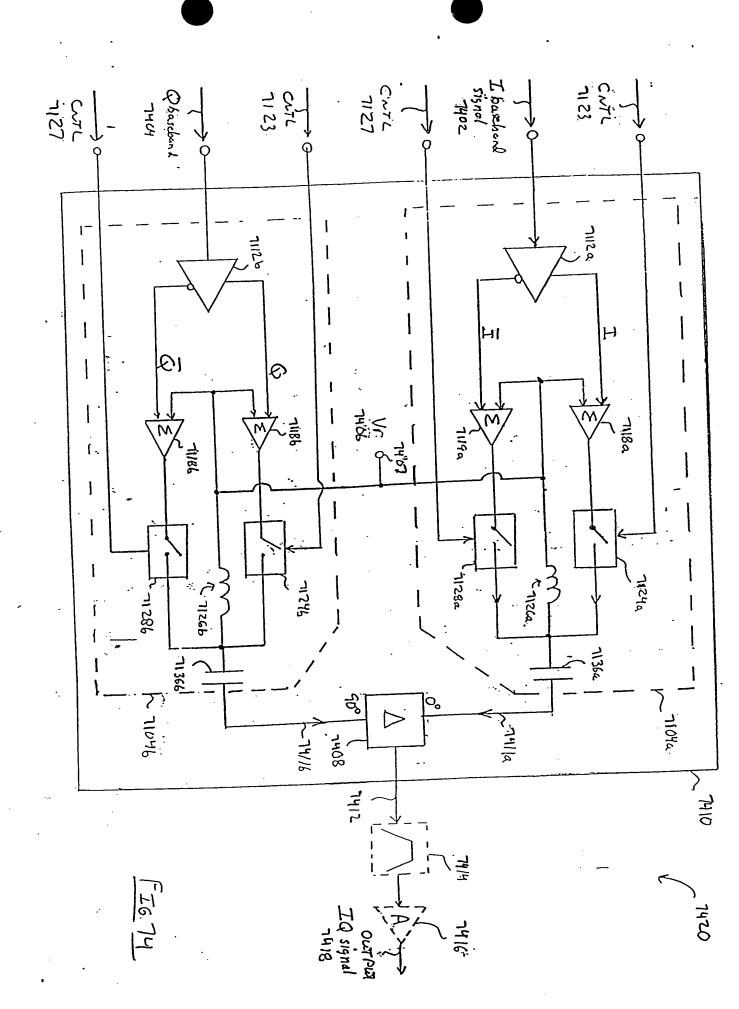
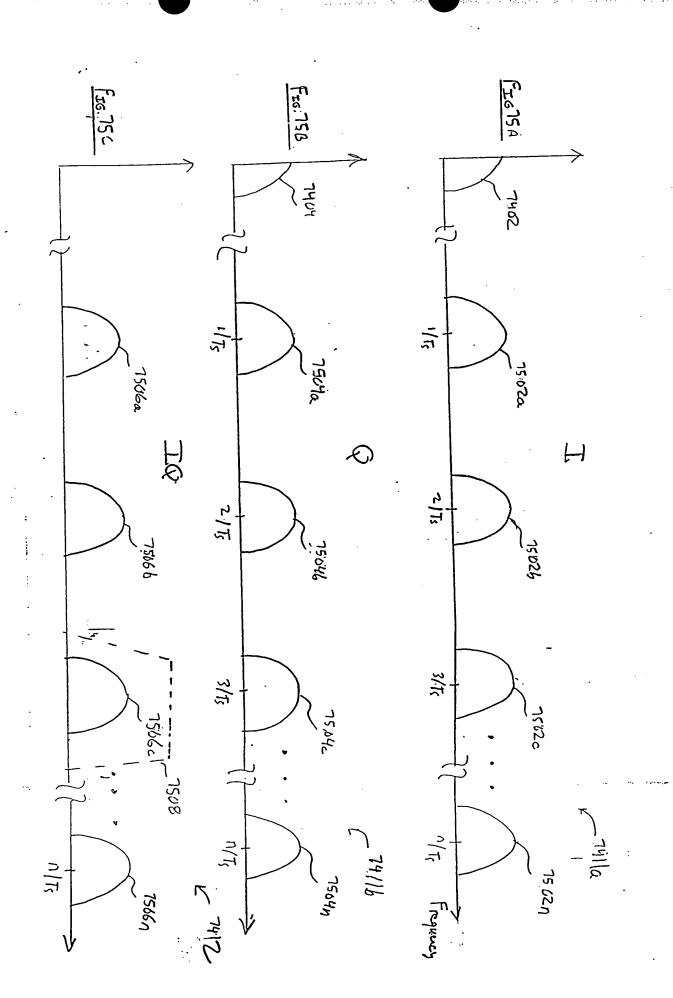
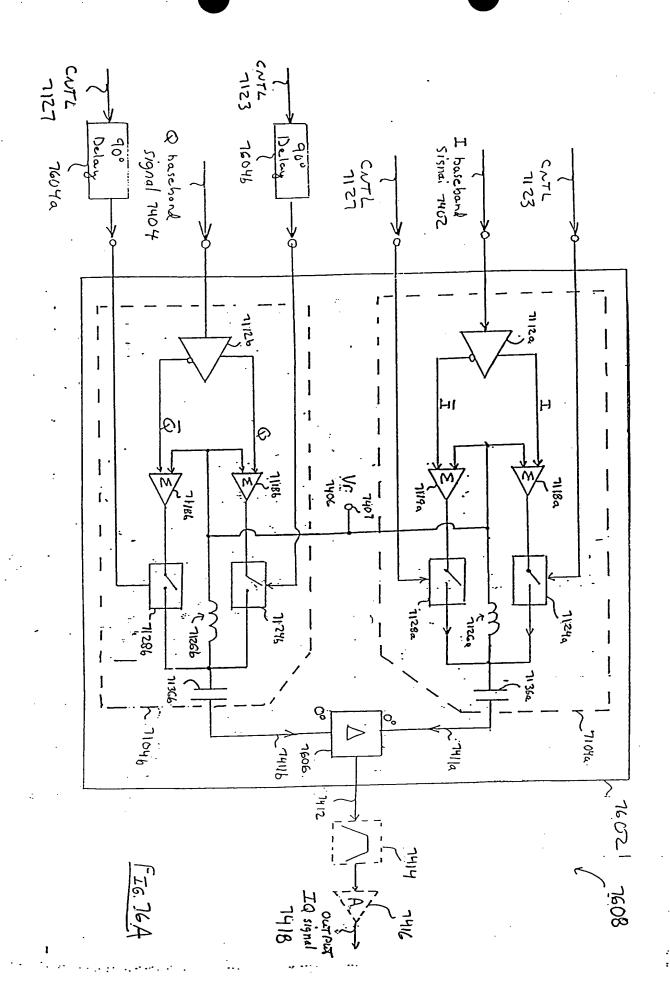
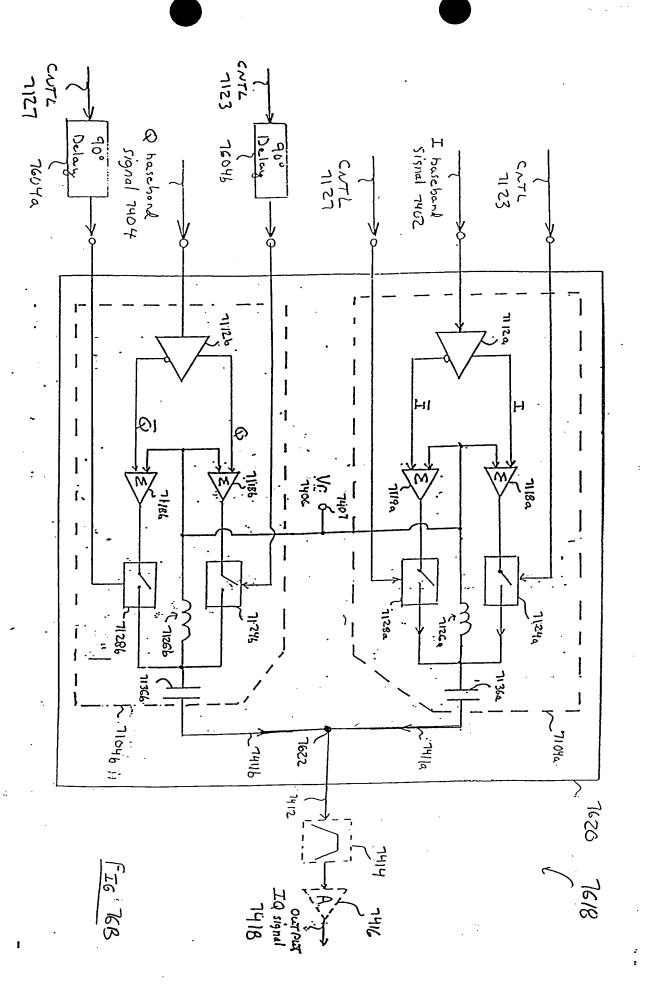


FIG. 73B



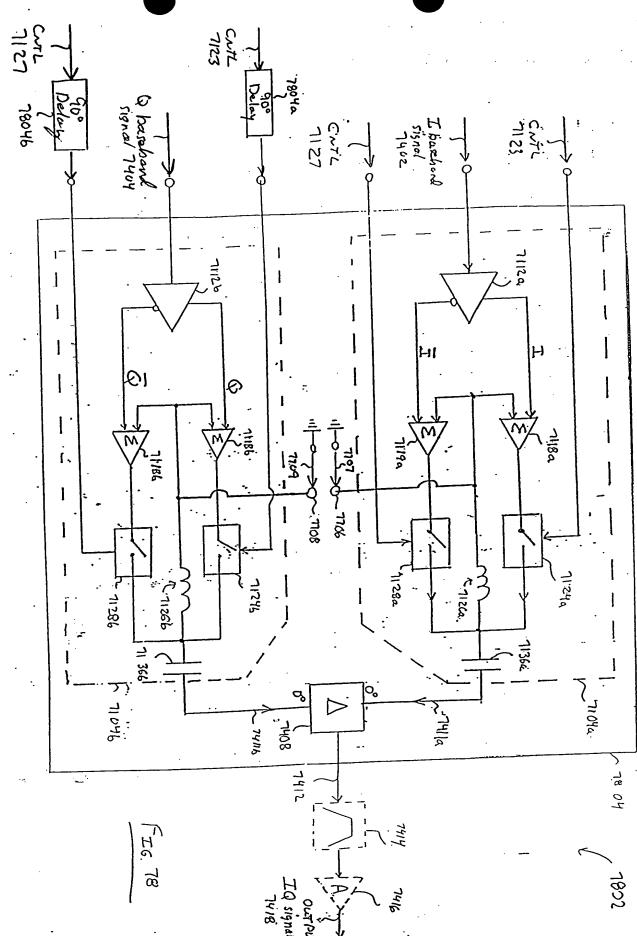


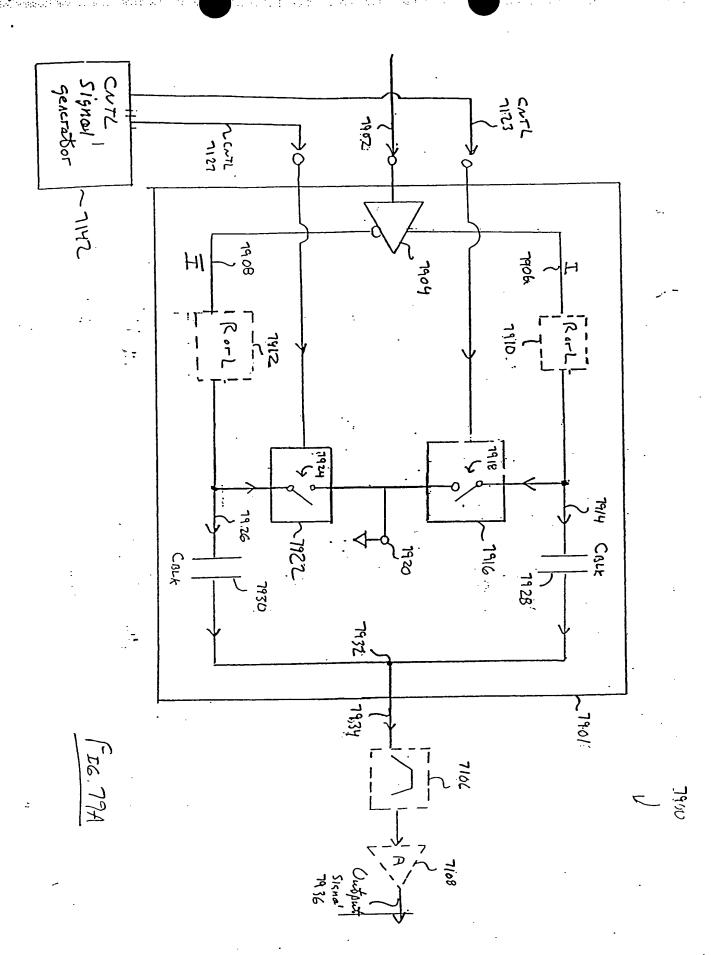




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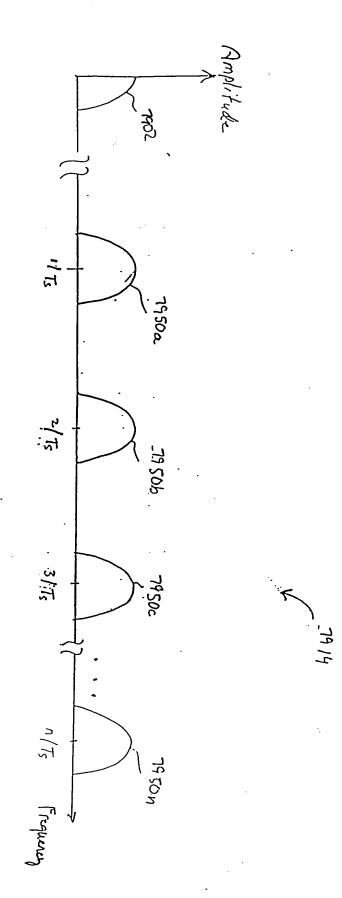
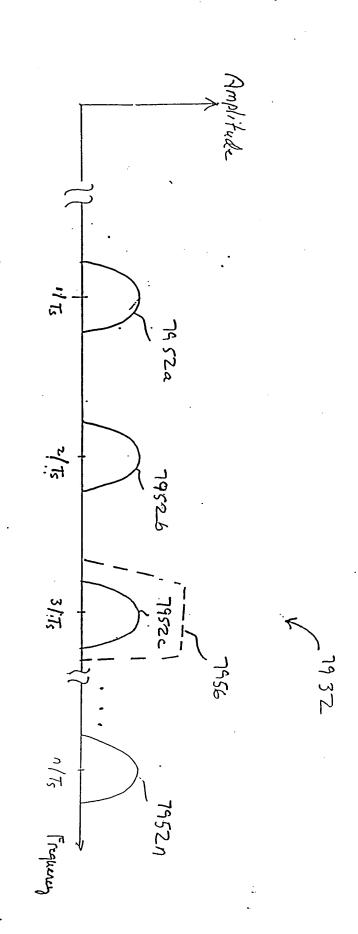
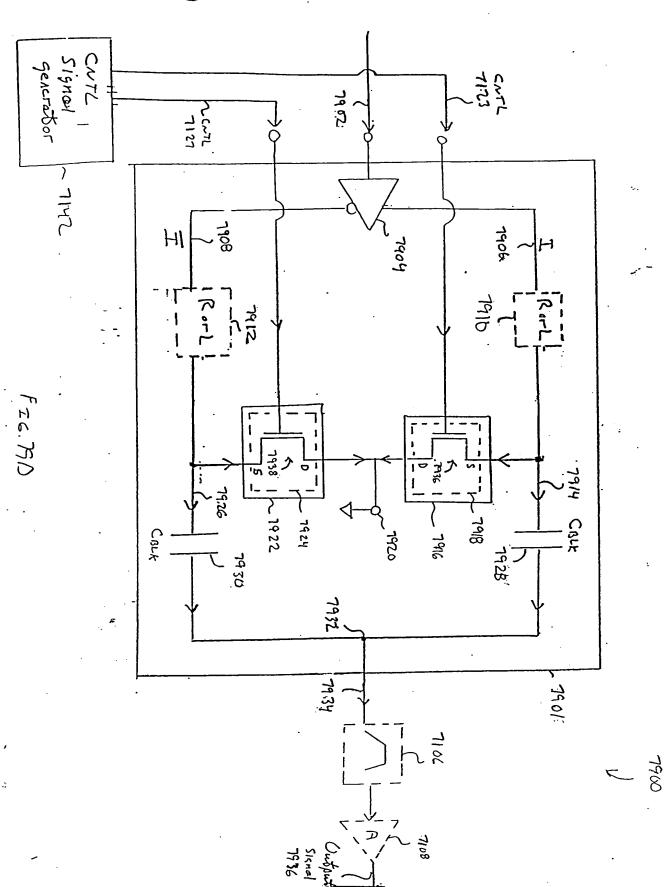


FIG. 79B

FIG. 79C

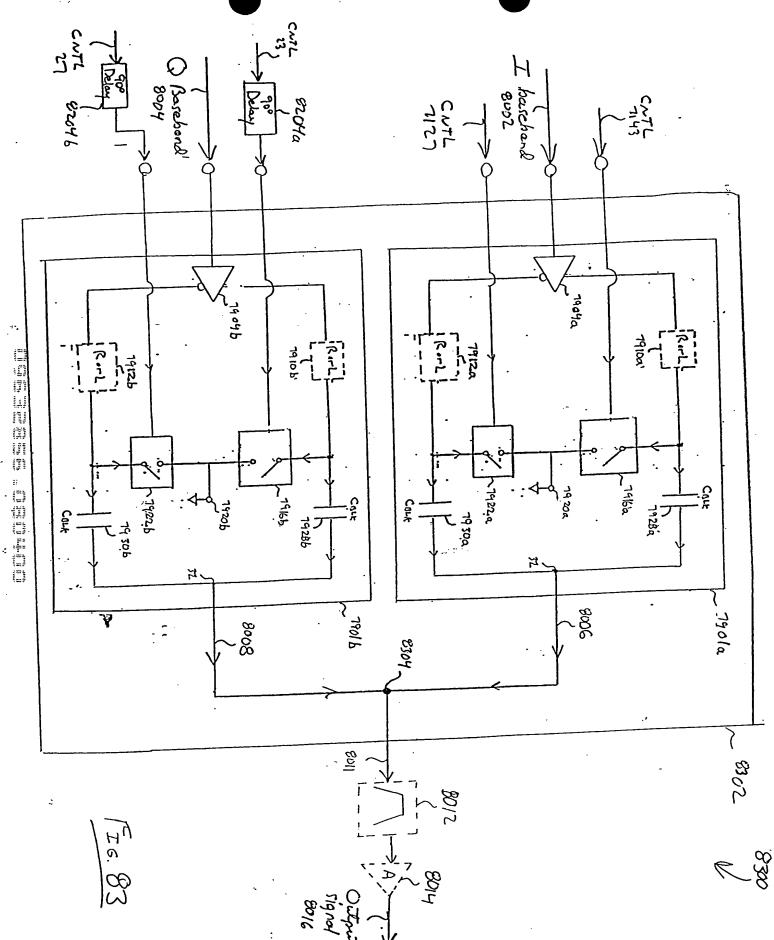


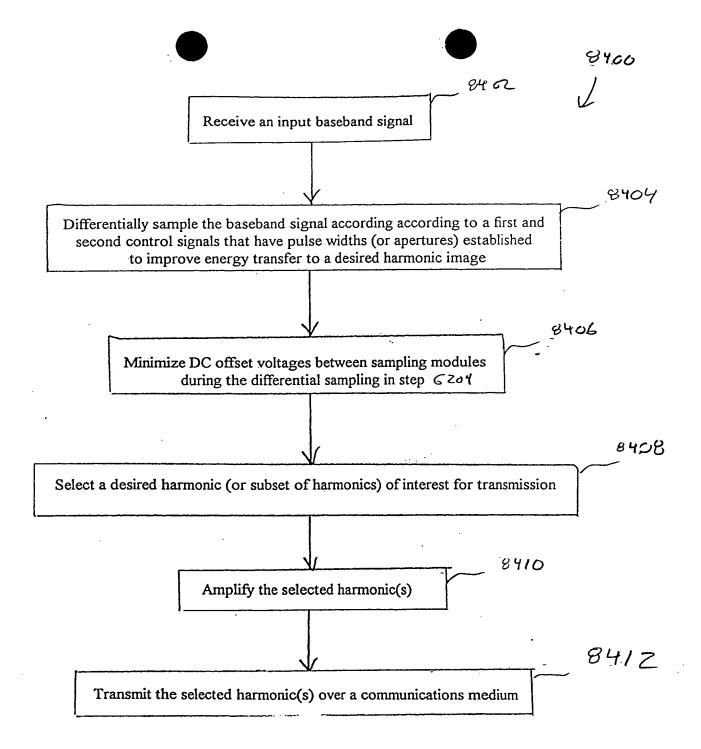


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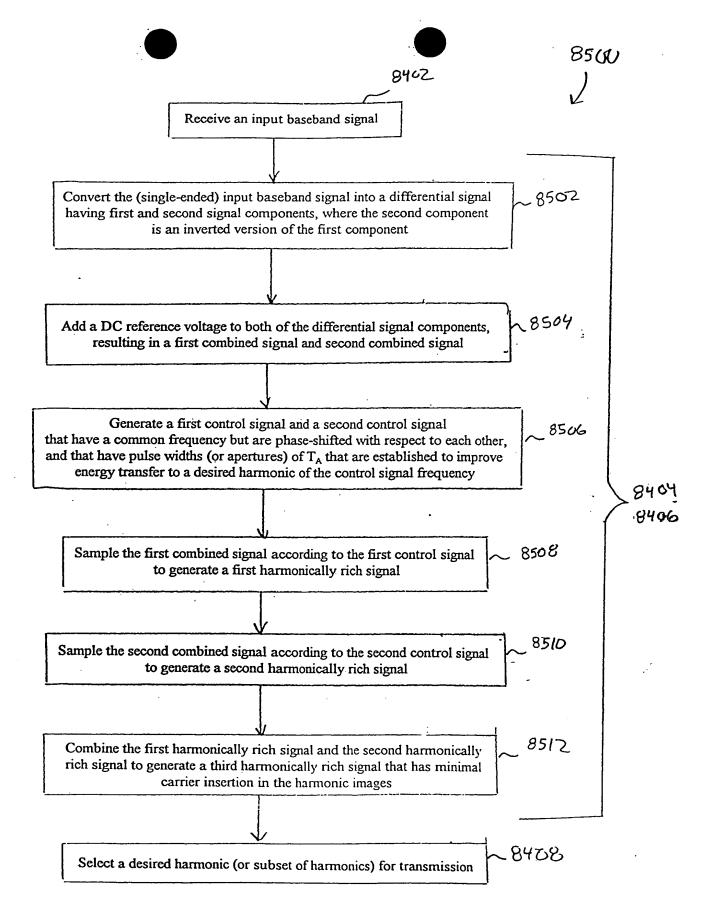
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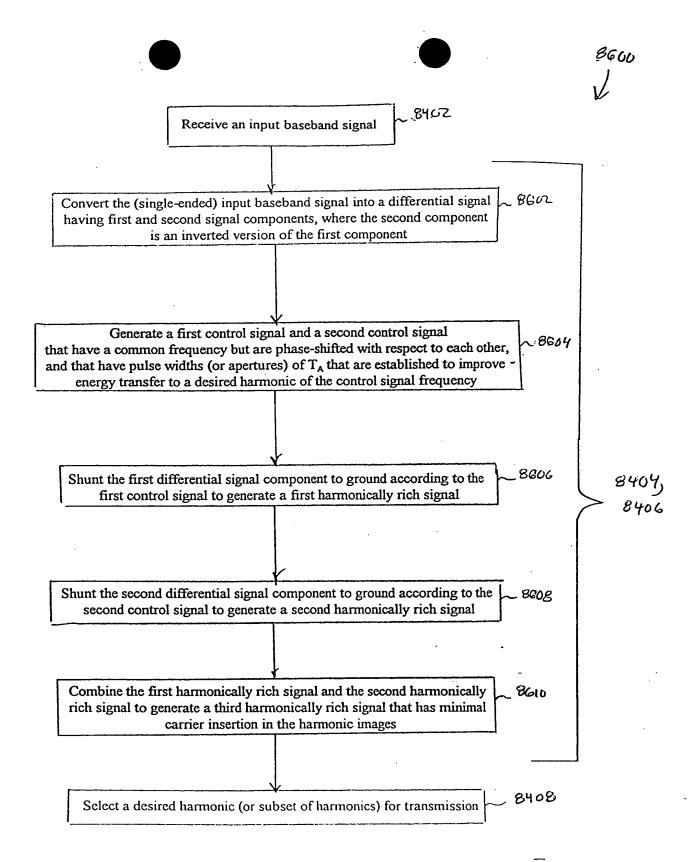
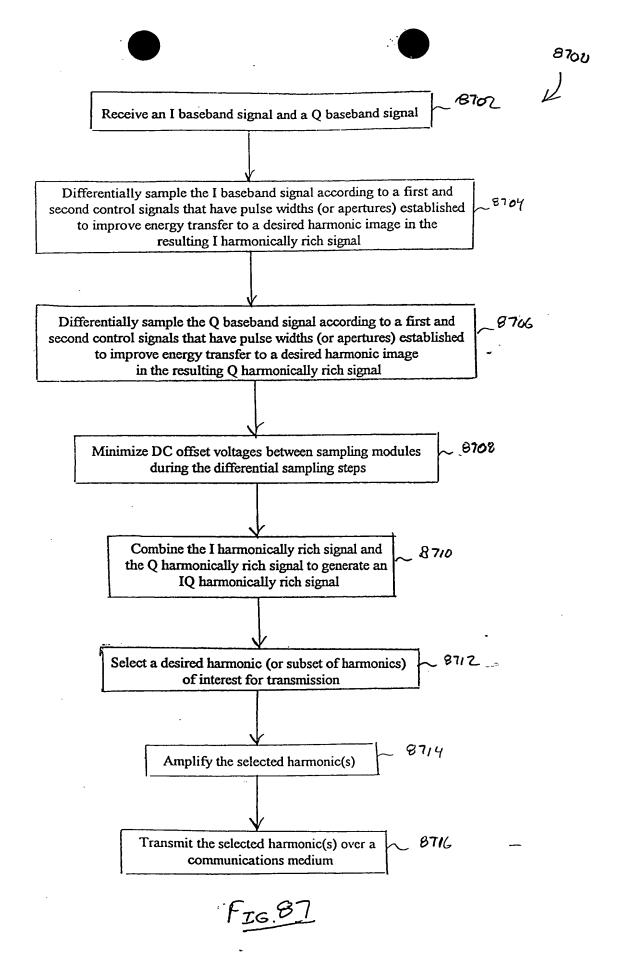


FIG. 86



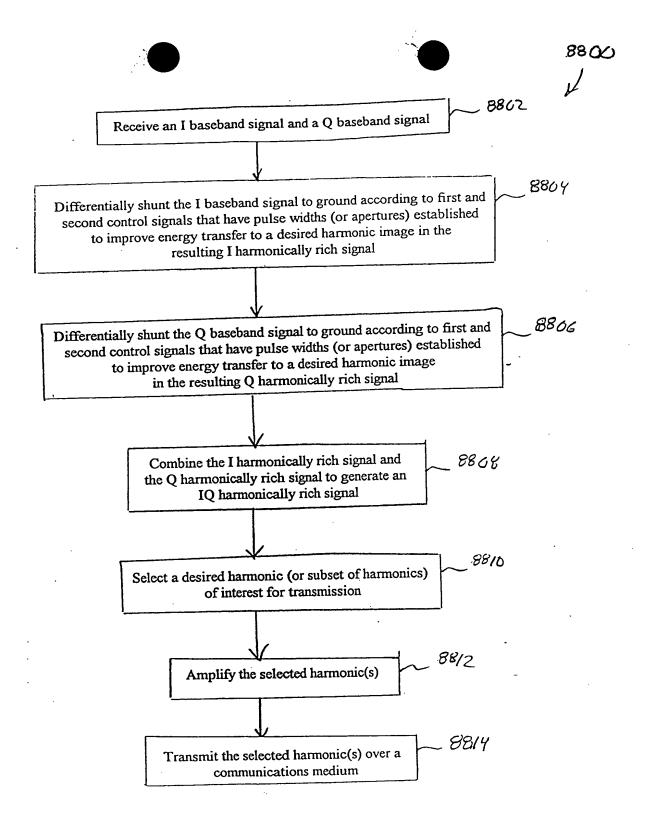
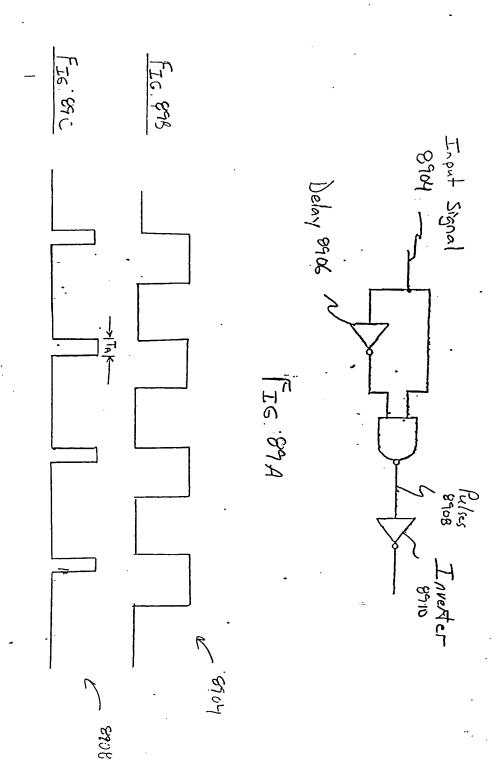
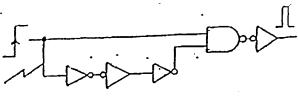


FIG. 88



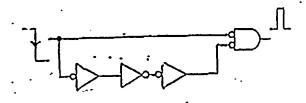


A. rising edge pulse generator

FIG. 890

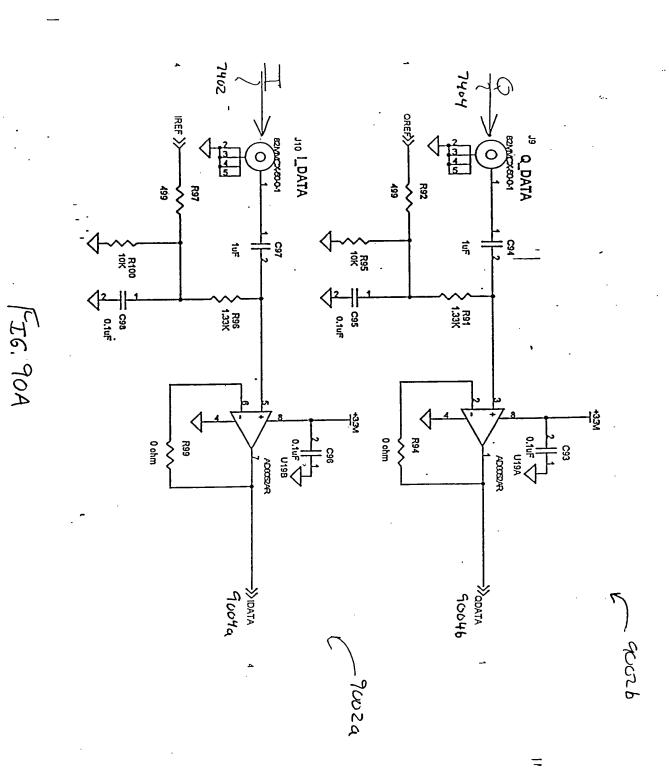
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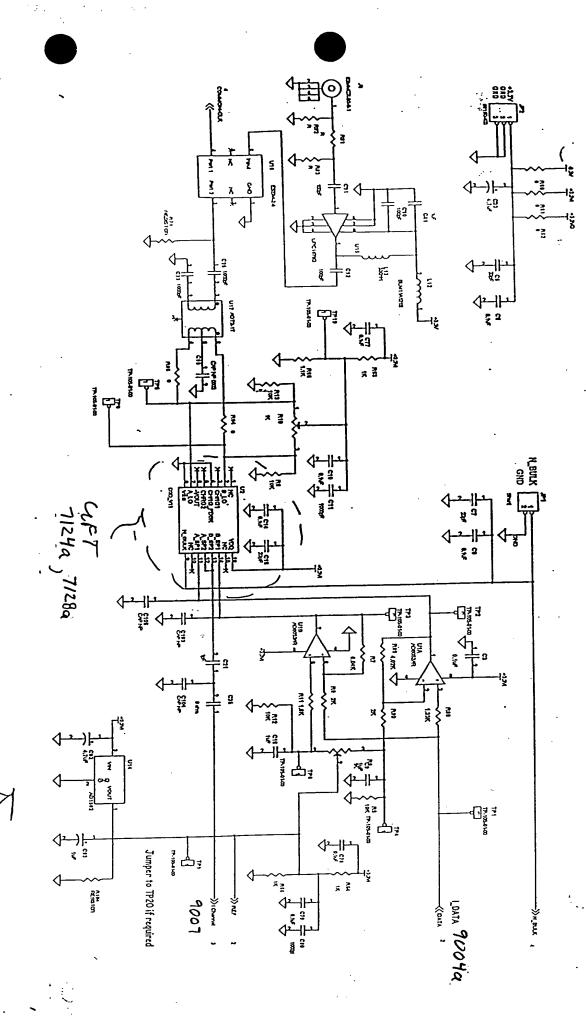
B. falling-edge pulse generator

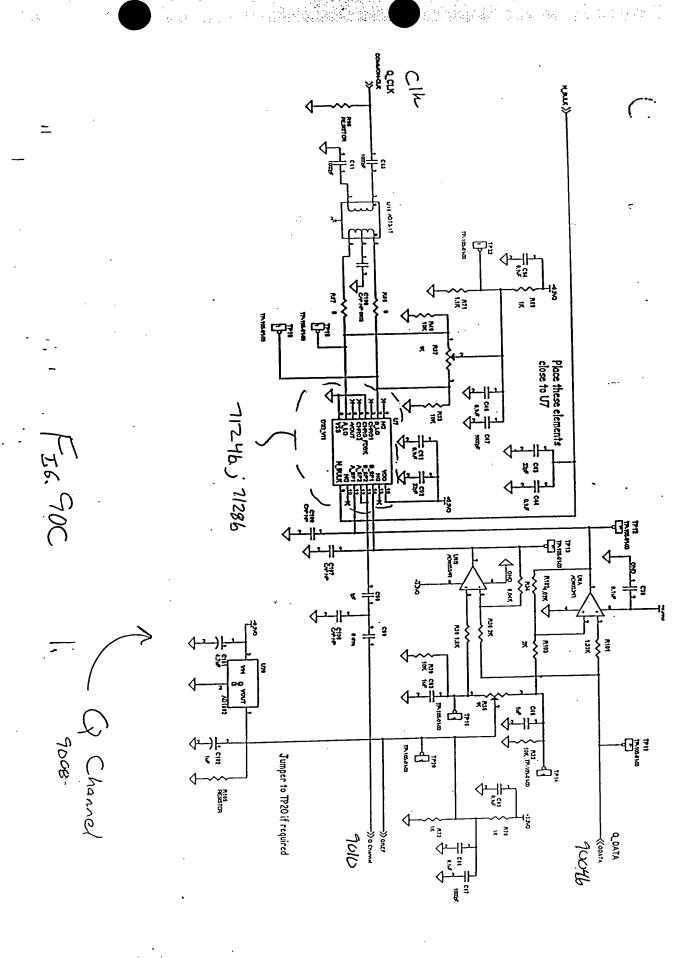
FIG. 89E

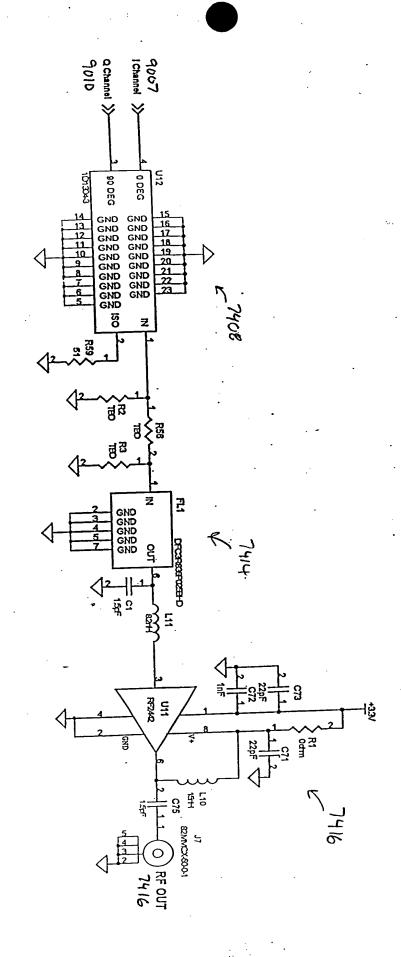


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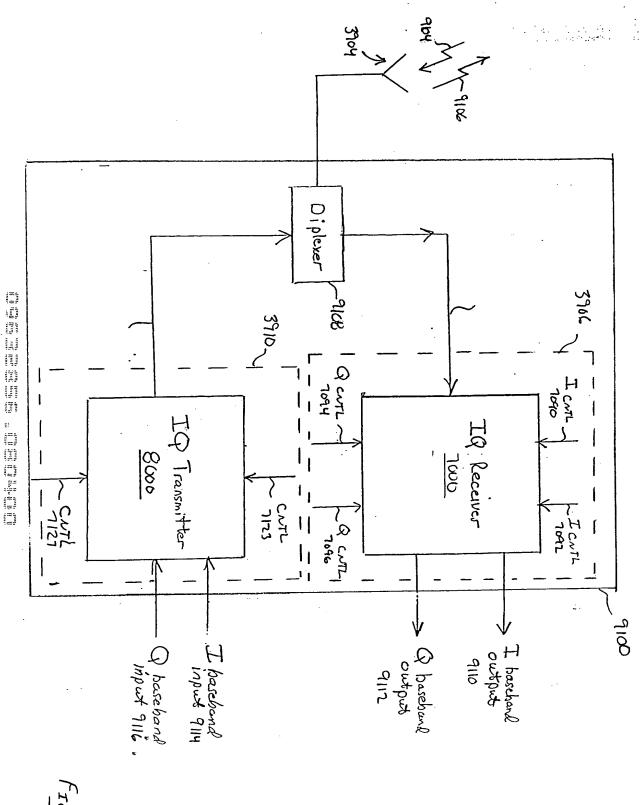


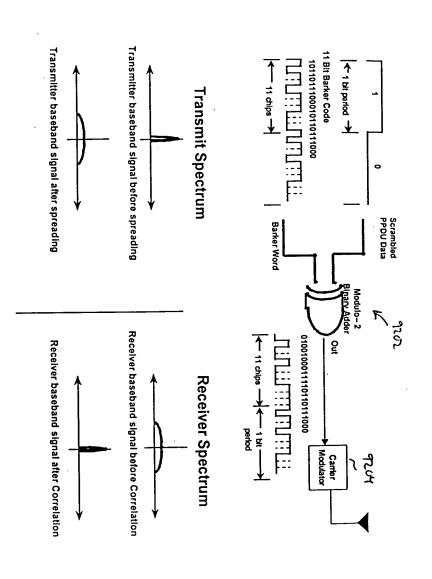




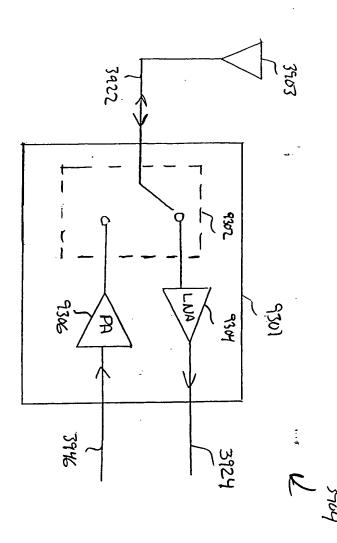
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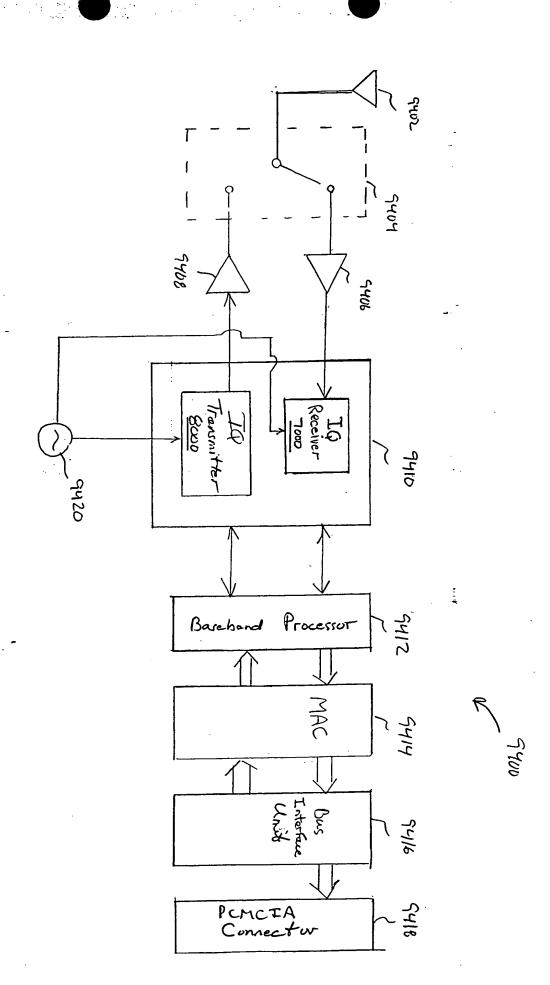


FIG. 94

FIG. 95B The first first and the first the state of the s

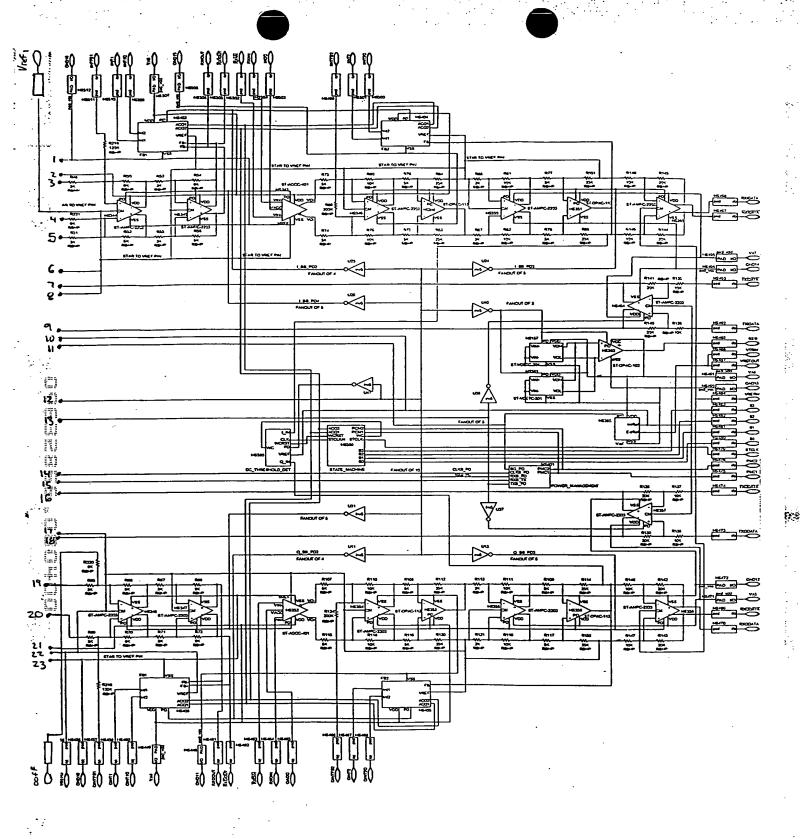
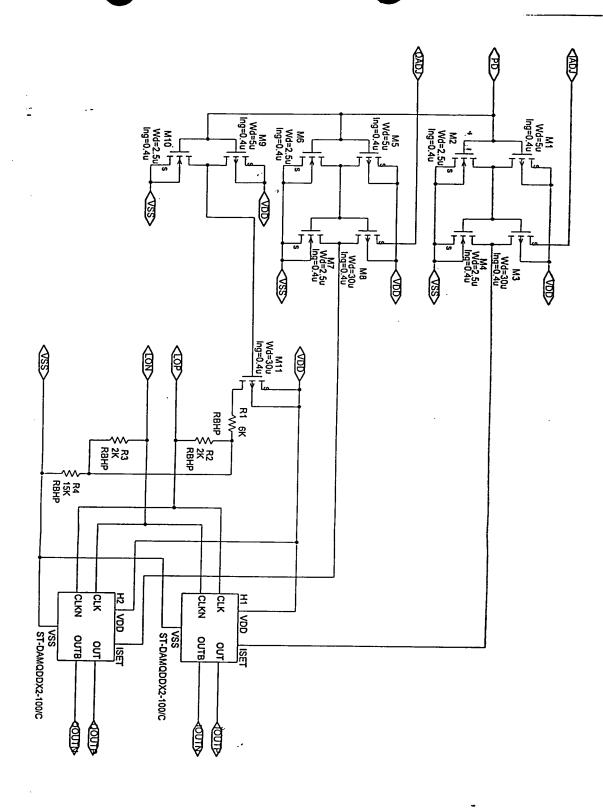
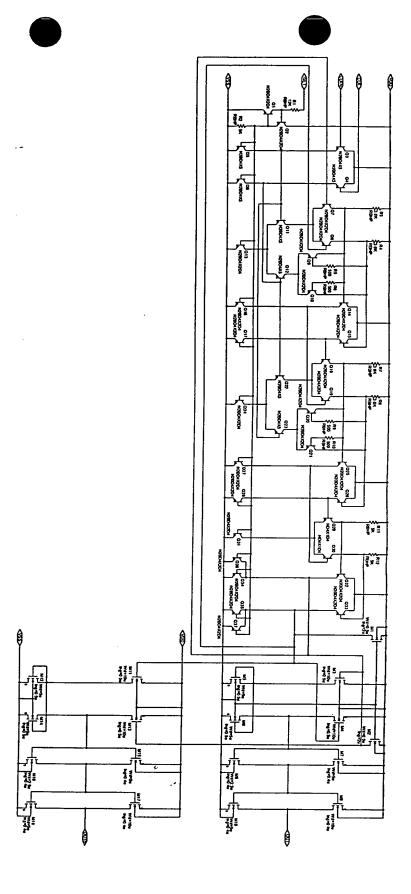
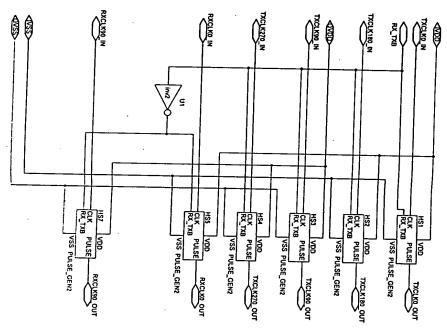


FIG. 95C

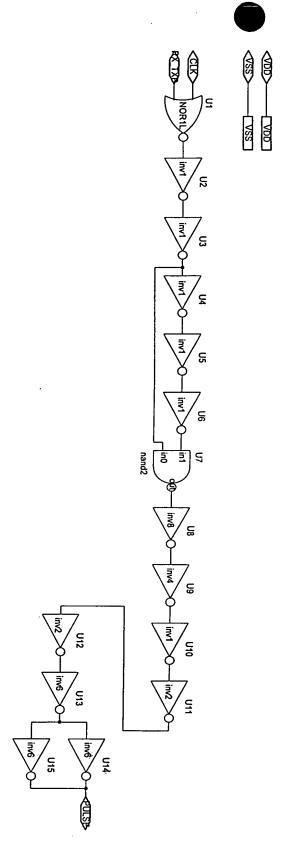




Fre. S8

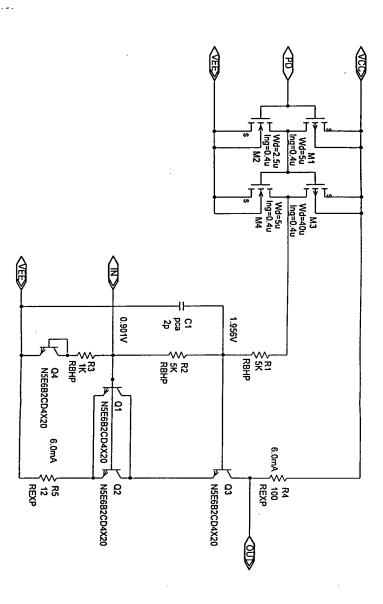


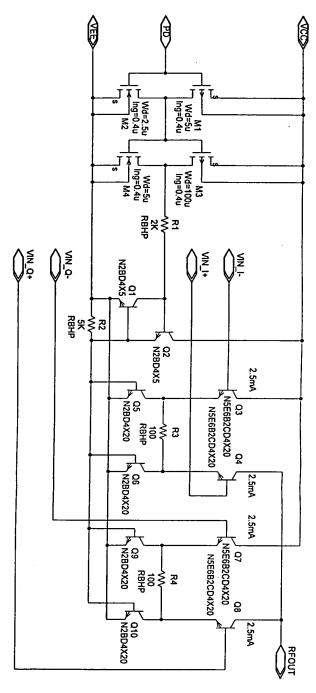
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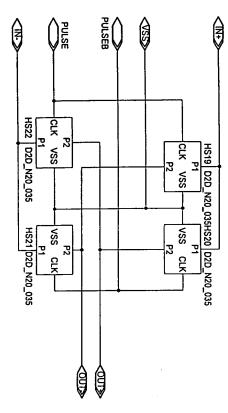
FEG. 99

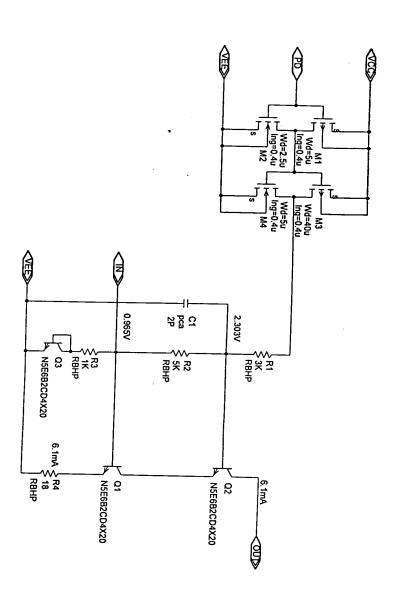
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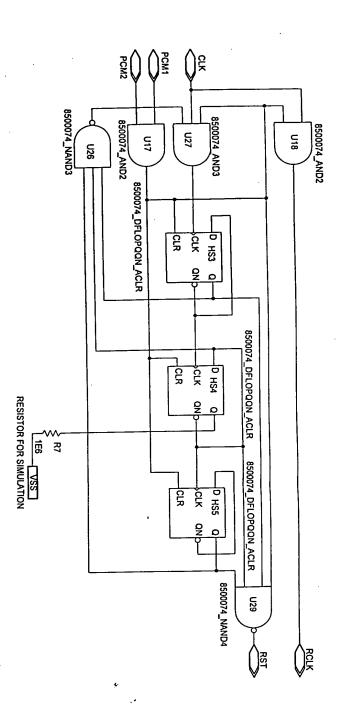




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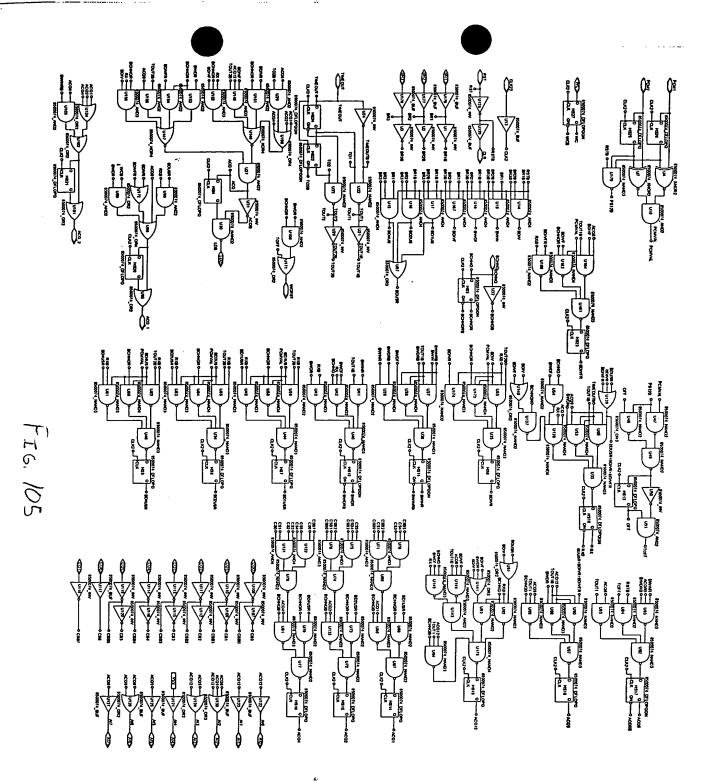


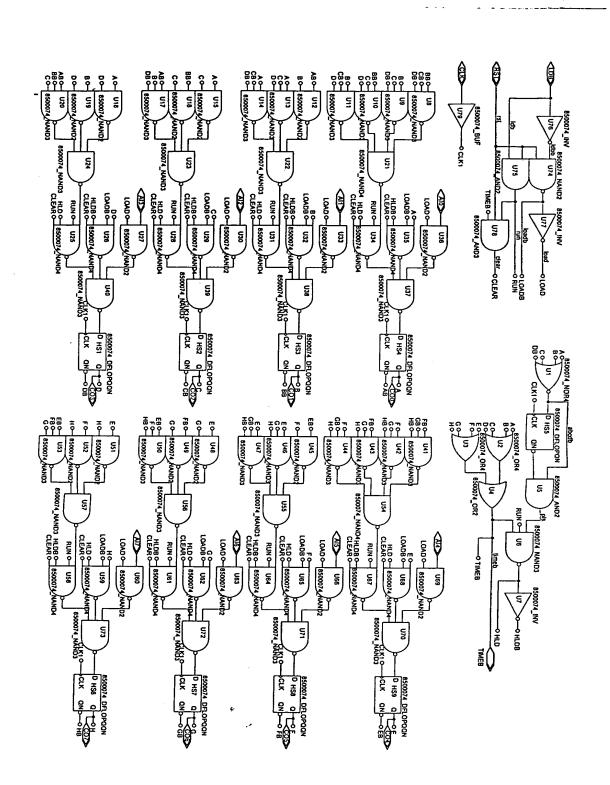


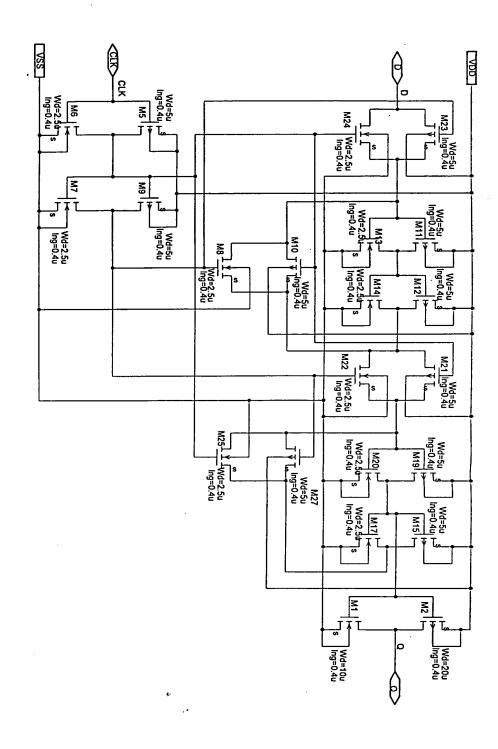


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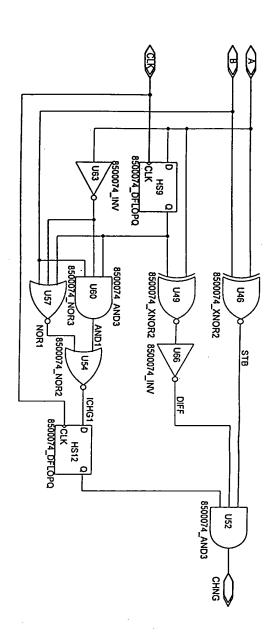
FIG 104





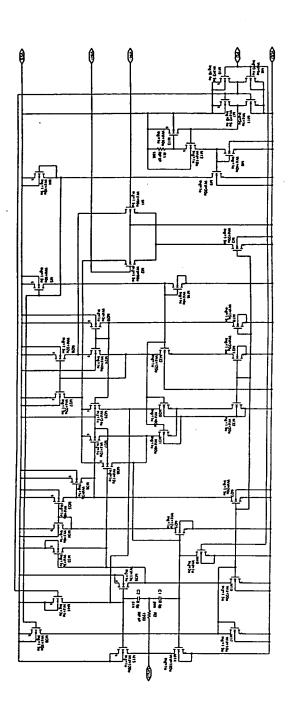


5. E.

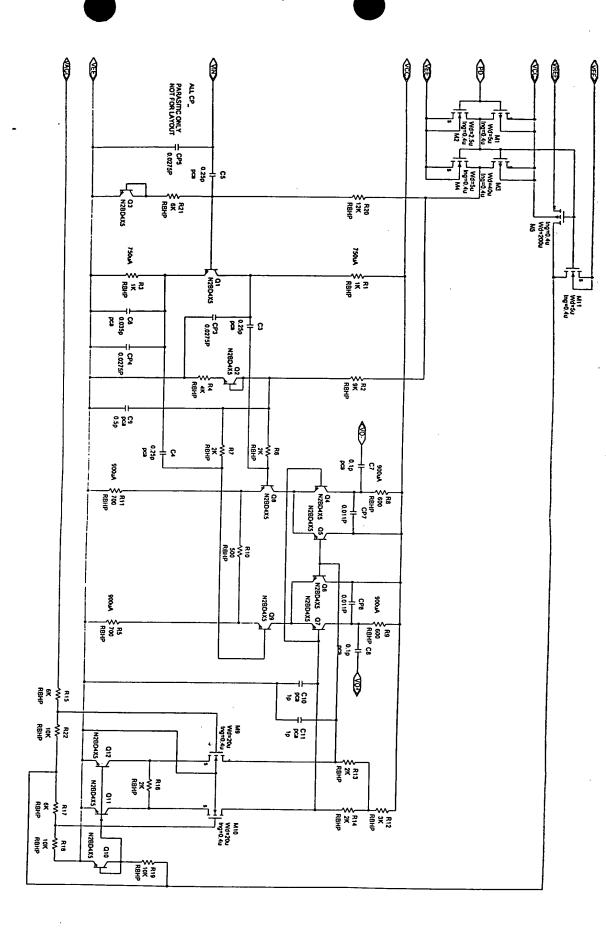


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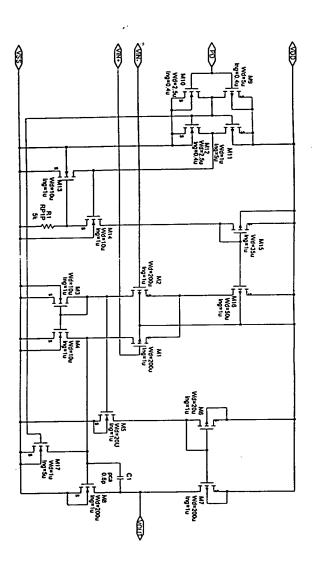
frs. 108

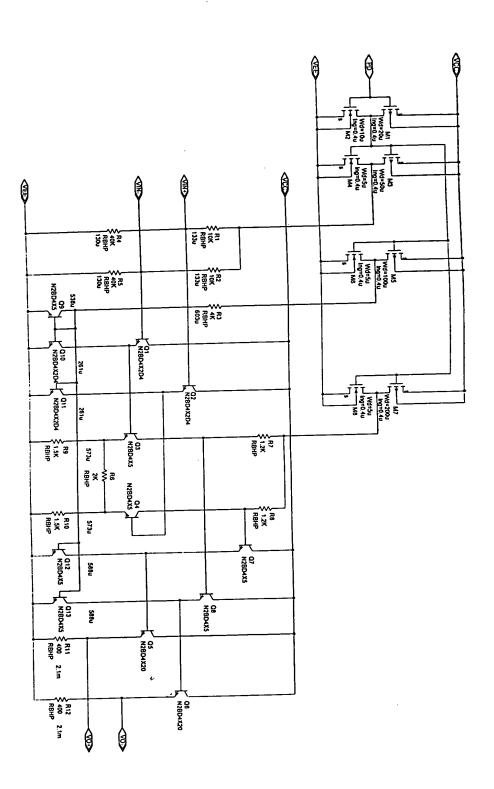


Fzs. 109

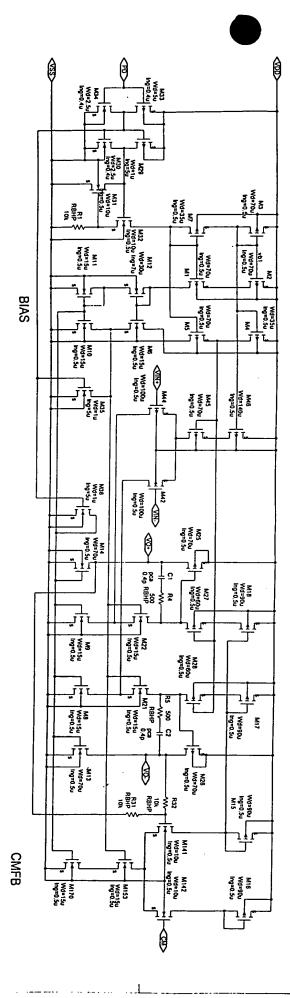


FEG. 110





tIG 112



FEG. 113

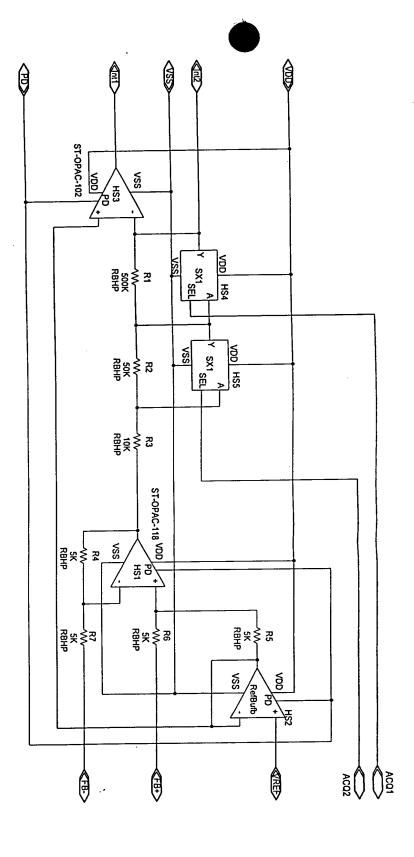
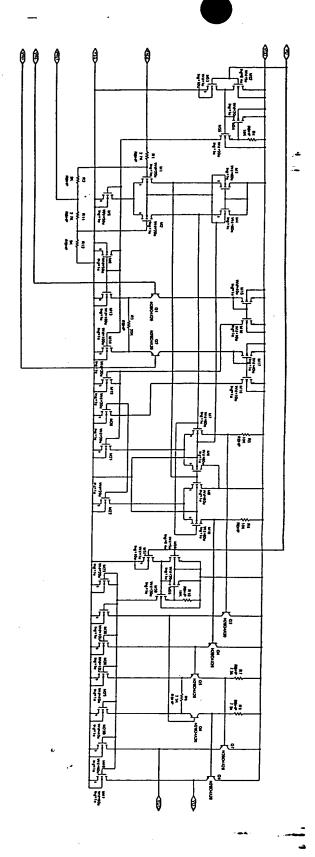
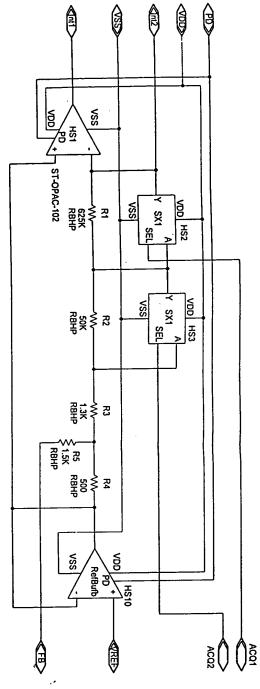


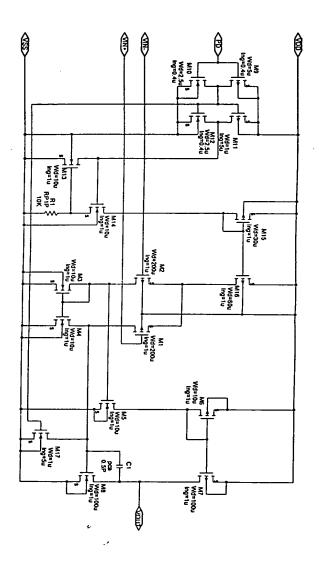
FIG. 114





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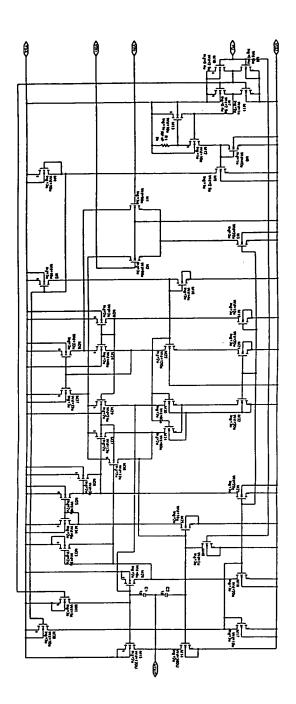
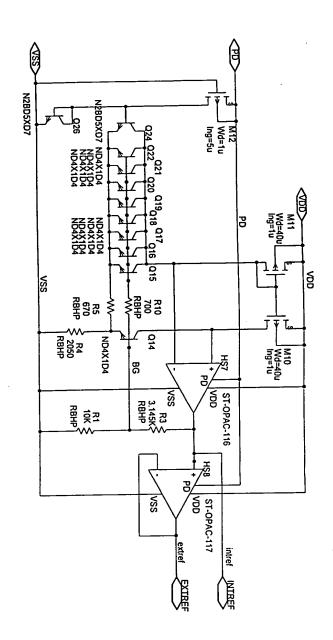
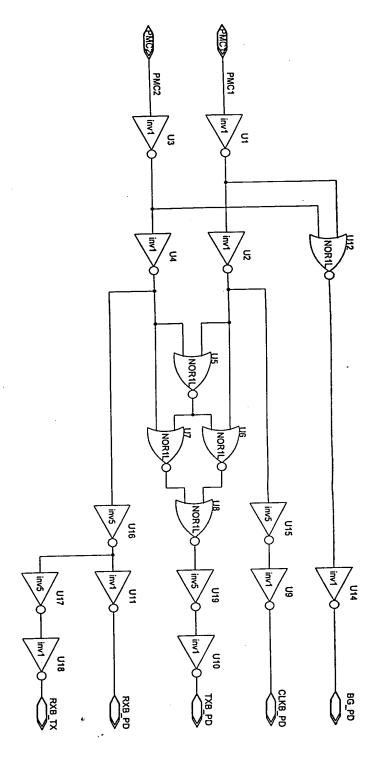


FIG 118

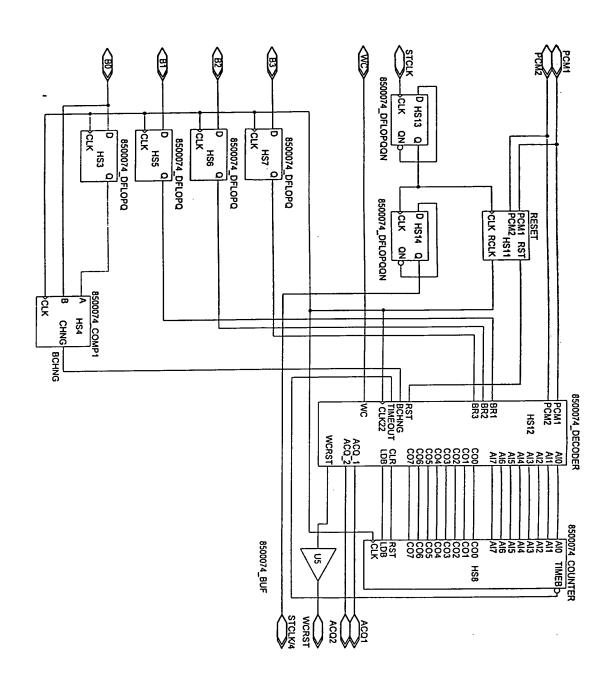
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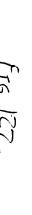


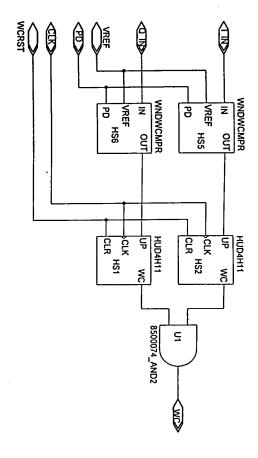
IG. 119

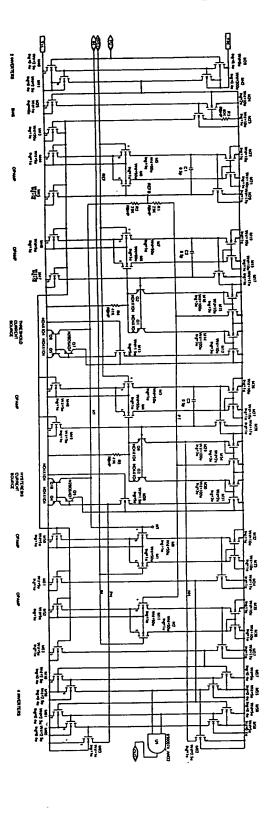


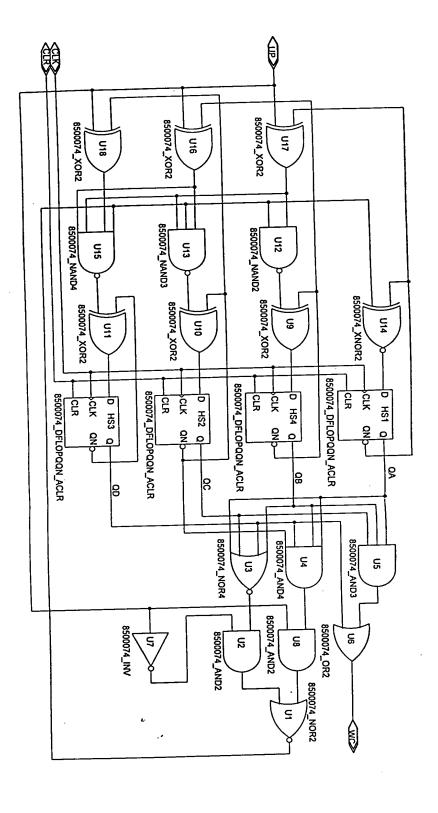
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76.124

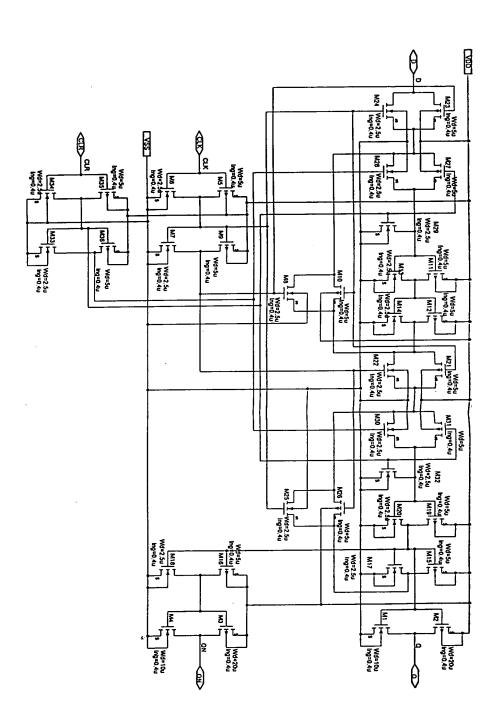
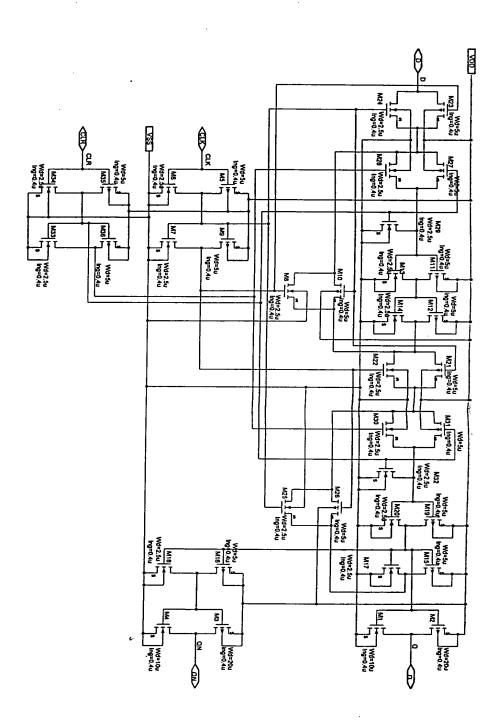
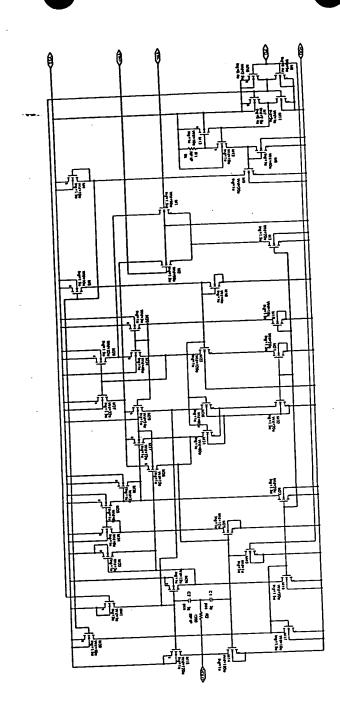
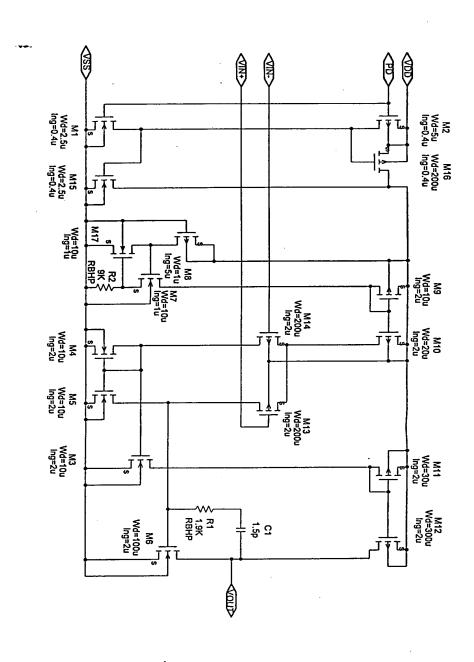


FIG. 125

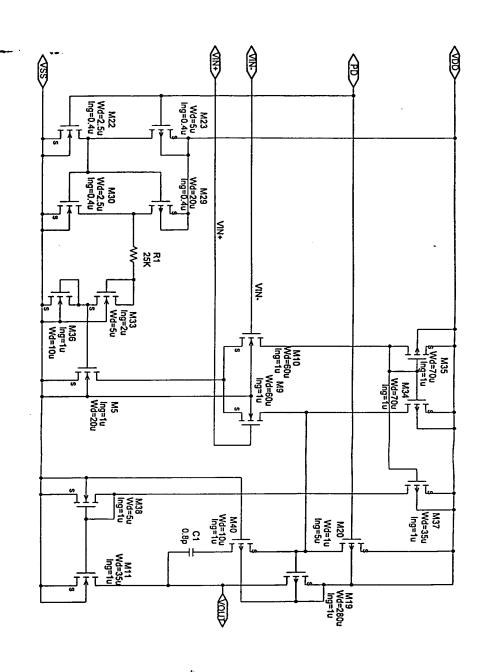


ts 126





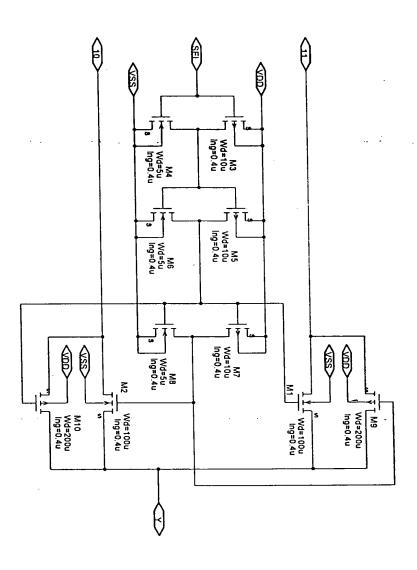
Fec. 128



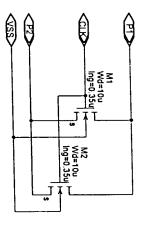
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FIG. 129

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IC 131



Fzz 132

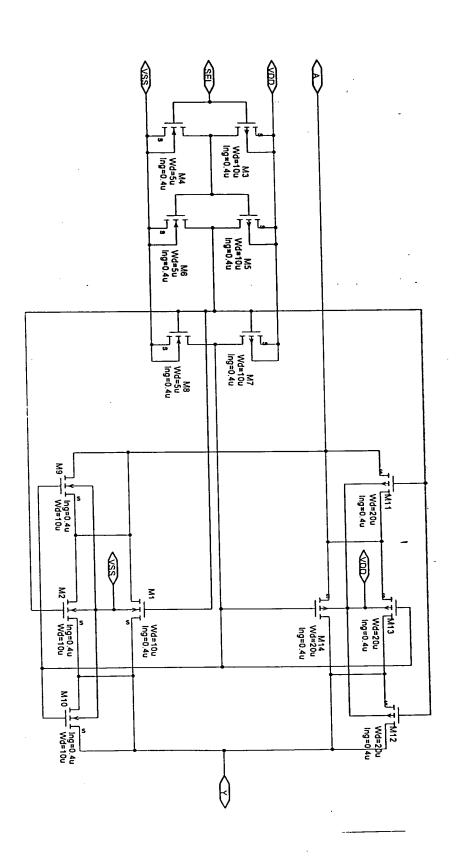
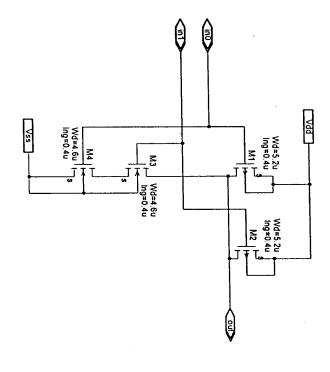
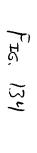
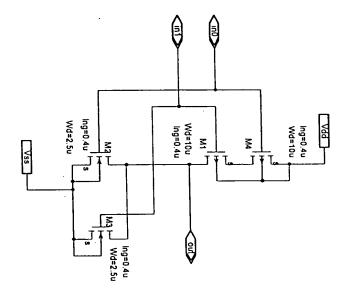


FIG. 133

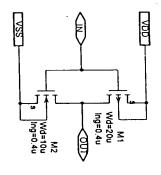


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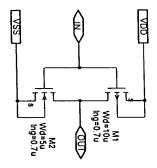




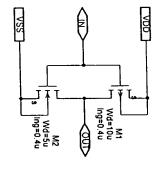
IC 135



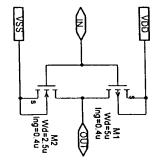
IE 136



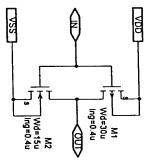
IC 137

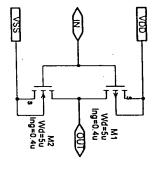


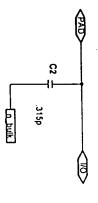
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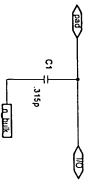
Fic. 139



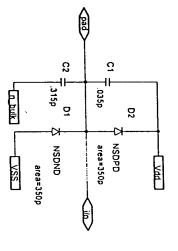




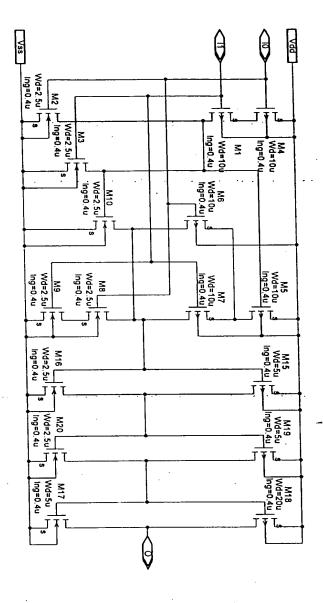




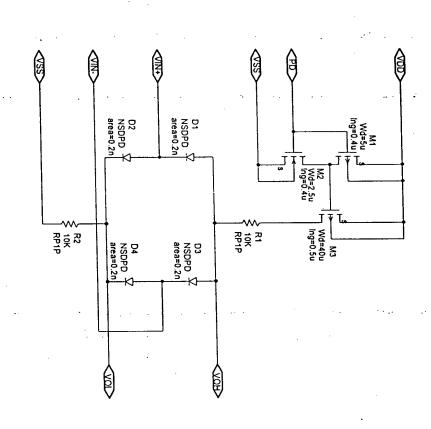
Fz6 143



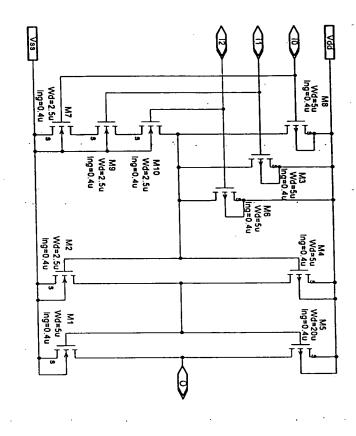
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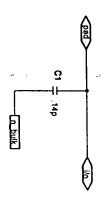


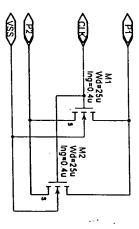
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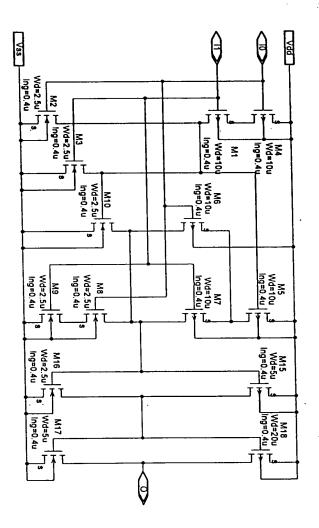


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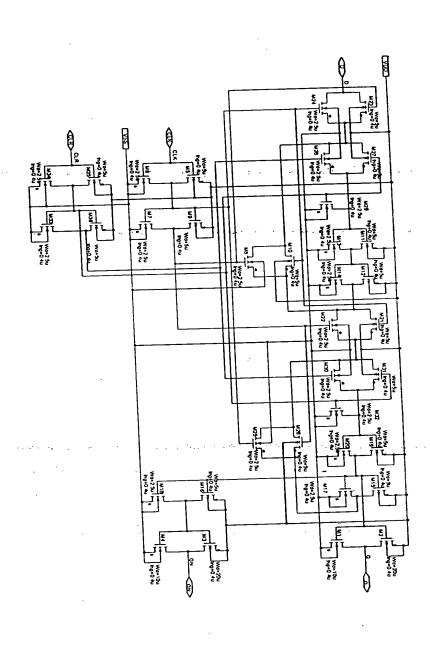


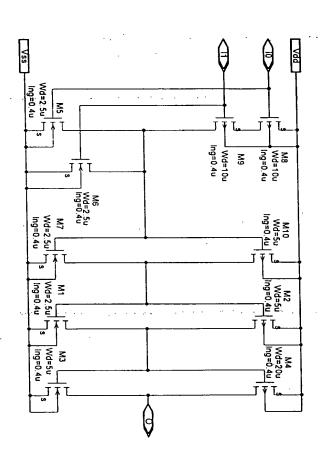




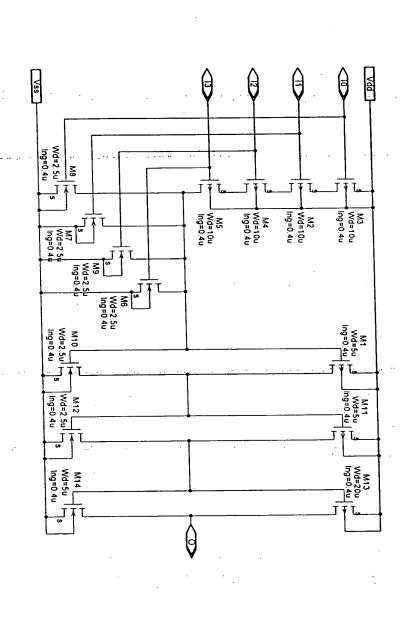


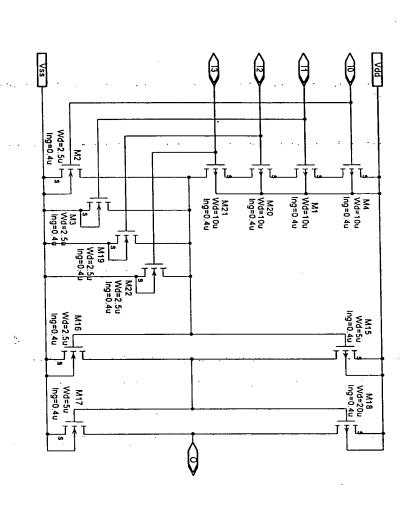
TIC. 150





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| Wd=10u | M7 | Wd=5u | Wd=5u | Wd=20u | M9=0.4u | M9=0.4u | M9=0.4u | M9=0.4u | M0=0.4u | M0=0.

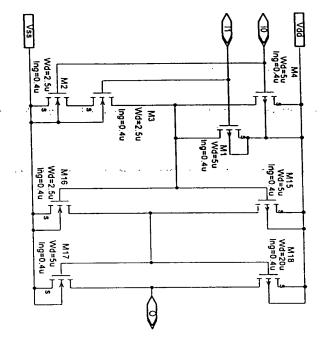
FZ6 154

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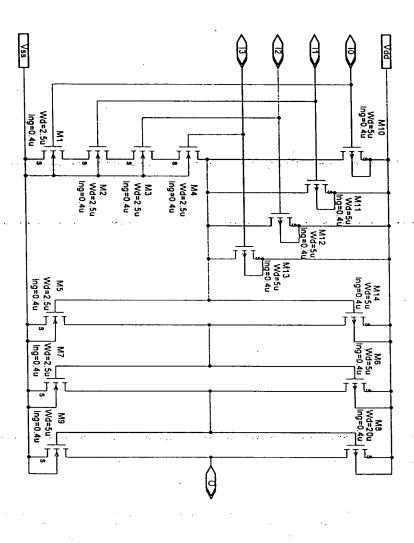
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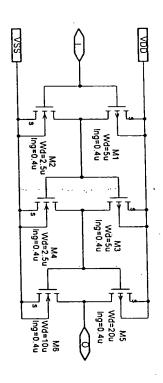




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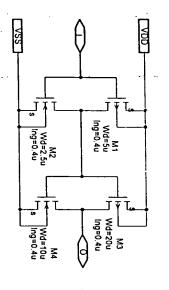


TZ6. /57

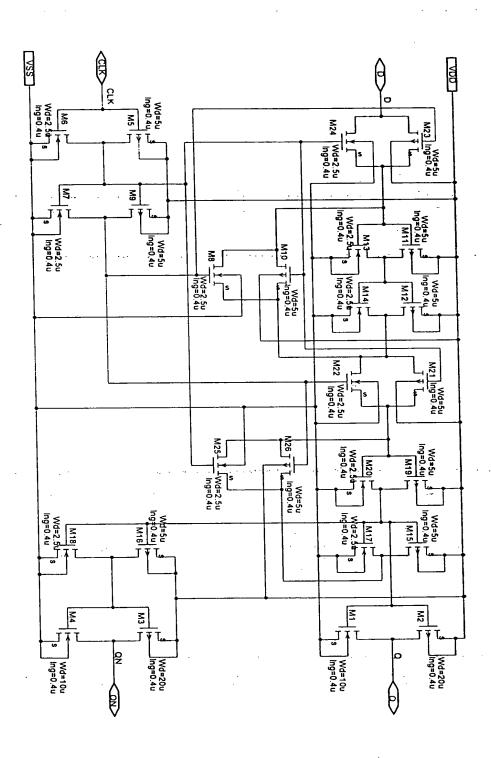




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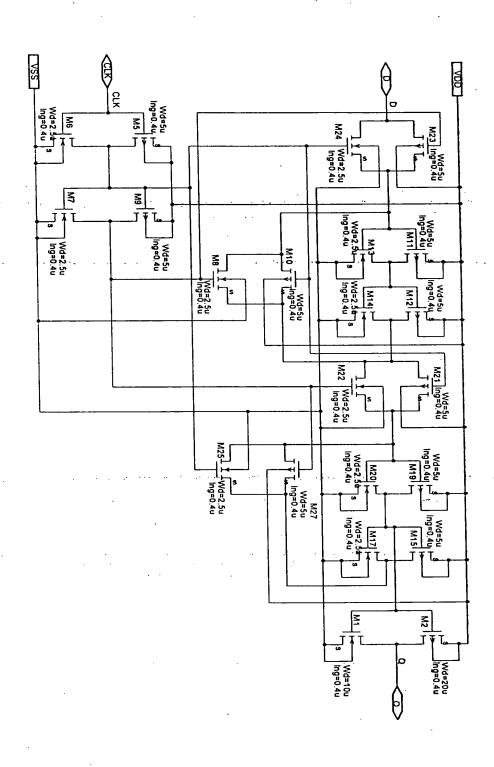


FIG 161

